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INTERPLANETARY SECTOR STRUCTURE 1947-1975

STANFORD UNIVERSITY

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OFFICE OF NAVAL RESEARCH

FEBRUARY 1976

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# Interplanetary Sector Structure 1947-1975

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B.S.

by

Leif Svalgaard

February 1976

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**by**

**Leif Svalgaard**

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Stanford, California**

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# **Interplanetary Sector Structure 1947-1975**

**by**

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Stanford University  
Stanford, California 94305**

## **Abstract**

**This report is an extension of "An Atlas of Interplanetary Sector Structure 1957-1974" to include earlier years back to 1947 and also the years 1932-1933 and 1975.**

## Interplanetary Sector Structure 1947-1975

by

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Stanford, California 94305

The present report is an extension of "An Atlas of Interplanetary Sector Structure 1957-1974" (Svalgaard, 1975a). Using ground-based magnetograms from high-latitude stations, the polarity of the interplanetary magnetic field has been inferred for each day in the time period 1947-1956. During this interval stations within the polar caps were operating most of the time making reliable determination of the sector polarity possible. We refer to the "Atlas" for details about the determinations and about the representation of the data.

Except for about a year (August 1952 - September 1953) at least one central polar cap station was always available. This means that the accuracy of the inferred polarities is high ( $\approx 85\%$  correct) and that for many statistical investigations the inferred polarity is an adequate substitute for in-situ spacecraft observations (Wilcox et al., 1975; Russell et al., 1975). During the time when only the polar cap boundary station Godhavn was operating, the sector structure was simple and stable. We therefore believe that also during that interval the inferred polarity is of sufficiently high accuracy.

The data sources are shown on the data compilation sheets by code letters as detailed in the "Atlas". A few additional data sources are given below.

G: Inferred by the author from Godhavn H which has a scale value of 9.5 nT/mm. The inference has been carried out recently with no reference to earlier inferences.

- D: Inferred by the author from Dumont D'Urville X. These inferences agree with the simultaneous Godhavn inferences 75% of the time. If the probability that Godhavn and Dumont D'Urville both agree is called  $q$  and if  $p$  denotes the probability that Godhavn (or Dumont D'Urville) agrees with the interplanetary sector polarity, then we have  $q = 1 - 2p(1-p)$ . This gives  $p = 0.85$  for  $q = 0.75$  attesting to the high accuracy of the Godhavn and Dumont D'Urville inferences.
- J: Objective determination of the polarity using Godhavn H. The method is described in Svalgaard (1975b).
- N: Yet another subjective inference by the author using Godhavn H and published by Antonucci (1974).

Sources J and N were only available for periods of a year each and were included in the compilation to show how stable the inferences are when repeated.

We present in this report the following tables and data compilations:

- 1 ) Daily classification of sector polarity 1947-1975.
- 2 ) Sector boundary list 1947-1975.
- 3 ) Bartels rotation plots of adopted sector structure 1947-1975.
- 4 ) Data compilation sheets 1932-1933, 1947-1974.



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# 1947

1	ACCCC	CCAAA	AAAAA	BCCCC	CBABC	CCCCB	B
2	CCCB	AABCA	AAAAA	BCCCC	AAABA	AAA	
3	BCBAA	AABAA	ACCCC	BCCCC	CAACA	BCBCC	A
4	CACAB	ABAA	CCCCC	CCBAA	AAAAA	AAAAA	
5	AAAAA	AAAC	CCCCC	CCCCC	AAACA	ABABA	A
6	AAAC	CCCCC	CCCAA	BAABA	AAAAA	ABAAA	
7	ABAC	CCCCC	CCCCC	BBAAA	BAAAA	ACAAA	B
8	CCCCC	CCCCC	CCAB	BBAAA	ACAC	ABCCC	C
9	CCACB	CCCCB	ACAB	AAACA	ABCCC	CCCCC	
10	CBCCC	CBAAA	AAAAA	AAAAA	ACBAC	CCBCC	C
11	CBAAC	BAAB	CCCB	AAAAA	BACAB	CCCCC	
12	CCBAA	BCABB	CBAB	BAAAA	BACCC	BCCBA	A

# 1948

1	CBCCC	CAAB	AAAAA	ACCCC	CCCB	AAABB	A
2	BBCCA	ABAAA	AAAC	CCCCB	AAACB	AACC	
3	ABAAA	AAAB	BACCC	CCAAA	CAAC	BCCCC	C
4	AAAAA	ACACC	CCAAA	ABAAA	CCBAC	CCCCA	
5	AAACC	CBCCA	AAABA	ABCCC	CCCCC	CAAB	A
6	ACCCA	ACAAA	ABAAA	ACBCC	CBCCC	AAAAA	
7	CCACC	ACCAA	AAACC	CCCCC	AAAAA	CCBAA	A
8	AAAAA	ABCCC	CCCCC	CCCB	CCCCC	CAAAA	A
9	AACCC	ACCCC	BCCCC	CCCCC	CCAB	ABAAA	
10	ABBAC	CCCCC	CCCCB	BCCCC	BCAAA	ABAAA	A
11	ABCCC	BCCC	BAABC	CBAAC	CCCCC	CCABA	
12	CACAA	CCCCC	BABBA	CCBAA	CBCCC	AAAB	C

# 1949

1	CCBCC	CCBAA	CCCB	ABCCB	AAABC	CCBCC	C
2	CCACC	CCBCA	CCCB	CBAB	ACAA	BCC	
3	AAAC	AAAAA	AACCC	CBCCC	CBABC	AACCA	B
4	ACABC	AACCB	CACCA	CCCCC	BAAAA	AAAAA	
5	CAACC	CCCCA	ABCCC	CCBAA	AAAAA	AAAAA	C
6	CCCCC	ABAAA	CCAC	CCAAA	ABAC	CCCCC	
7	BCCBB	AAAAA	AAACC	AAAAA	ACCCC	BCCBA	A
8	AABCC	CBAAA	AAAAA	ACCCC	CCCCA	AAAAA	C
9	BCCBA	AAAAA	ACCCC	BCBCC	ABAAA	ABBCA	
10	AAABB	AACCC	CCCCC	CCAAA	AAAAA	ACCAA	B
11	CAAC	CCCB	BCAAA	ABACB	BCCAA	BACCC	
12	ACCCC	AAACA	AAACC	CAAAA	BAAAA	BCCCC	C

# 1950

1	CCCCA	AABCC	CCCBC	C AAAA	AAACC	CCCCC	C
2	CBAAA	BCCCC	CAAAA	BCACC	BABAB	CCA	
3	AAAAA	BCBAC	CCCAA	AAACC	CCABC	AABCC	C
4	BBCBA	CCCAA	AAAAC	CCCCC	AAAAA	ACCCB	
5	CCCCC	CABAA	BACCC	CABBA	ACCCC	CCCCC	C
6	CCACC	CACCC	CCCAA	ABAAA	ACCCC	CCABC	
7	BAACC	BAAAA	CABBA	AAAAC	CCCCA	ACCCC	C
8	CCCCC	CAAAA	AAACB	CCCAA	AAAAA	AAACC	C
9	CAAAA	AAAAA	ABCCC	BAAAA	ACCCC	CCABA	
10	CCBAA	AAAC	CCACA	AAAAC	CCCCC	CCCCA	A
11	BAAAA	ACCCC	AABAA	CCCCC	CCCCC	CCAAA	
12	AABCC	CABAA	ACCCC	CCCCC	CCCCA	AAAAA	C

# 1951

1	CCCCC	BAACC	CCCCB	CBACC	CBAAA	CCCCC	C
2	CAACC	AAACC	CCCAA	BAAAA	AABBB	BCC	
3	AAAB	CCCCC	BCBAC	AACAA	ACCCC	CCCCA	A
4	ACBCC	CCCCC	AAAAA	AAACC	CCCCC	CAAAA	
5	CCCCC	CCCCB	AAACC	CCACC	CBCHA	ACBAB	A
6	CCCCA	BABAB	CCCCC	BAAAB	AAAB	AAACC	
7	AAAB	CCCCC	CCCCB	AAAAA	AAAAA	AAAAA	C
8	CCCCC	CCCCC	AAAAA	ABCHA	AAAAA	AAABC	C
9	CCCCC	CCCAA	AAAAA	AACCA	AAAAA	CCCCA	
10	CCCCC	CAAAA	AAAAA	AAAAA	AAACC	CCCCC	C
11	BAAAA	AABCC	ABCHA	ABCCC	CCCCB	CBAAA	
12	AAACB	AAABA	AAABC	CCCCC	CCBCC	AAAAA	B

# 1952

1	CCCCC	CCACC	CCCCC	CACAA	CCCCA	ACCCA	B
2	AAAB	CCCCC	CCBCA	AAAAA	AAACC	CBAA	
3	AAACC	CCCCC	CCCCC	AAABA	CCCCA	AAAC	C
4	CCCCC	CCCCA	AAAAA	AAACC	CBAAA	AAACC	
5	CCCCC	CCCCC	AAAAA	ABCHA	AAACC	CCCCA	C
6	CCCCC	ACBBB	AAAAA	ABAAA	ACCCC	CCACC	
7	CCAB	AAAAA	AAAB	AAABC	CCCCB	CCCCC	A
8	AAABA	AAAAA	AAAAA	CCCCC	CBCHA	AAACA	A
9	AAAC	AABAA	CCCCC	CCCCC	CAACC	CCCCA	
10	AAAAA	AAACC	CCCCC	BAAAA	CCCCC	CAAAA	B
11	AAAAA	CCCCC	CAAAA	ACCCC	CCAAA	AAAAA	
12	CCCCC	BAAAB	AAABB	AAAAA	ABAAA	AAACC	C

# 1953

1	CCCBA	BAAAA	AACBA	AAAAA	AAACC	CCCCC	A
2	AAAAA	AAABC	AAAAA	CBAAA	CCCCC	CCC	
3	ACCBC	CCCCC	ABAAA	AAACC	CCCCC	CACCC	C
4	CBCCC	CCAAA	AAAAA	ABCCC	CCAAA	BAAAC	
5	AAAAA	AAAAA	AAAC	CCCBC	CCAAA	AAACA	C
6	AAAAA	AAAAA	AAACA	CBAC	ACCCC	ACAAE	
7	AAAAA	ACCAA	ACCCA	AAAC	CCCCB	AAAAA	A
8	AAAAA	AAACB	CCCAA	ABAAA	ACAAA	ABCCC	C
9	AACCC	AAAAA	CCAC	ABCCC	ACCAA	AAACA	
10	ACAAA	AAABC	BCBCC	CCCCC	CAAAA	AAACC	C
11	AAABC	CCBBB	CCCCC	ABCCC	AAACC	CCBAA	
12	ABCCC	CCCCB	CCAAA	AACCC	BCCCB	BCCCC	A

# 1954

1	BCAAC	ABAAA	BBAAC	CCCCC	CCBAB	CCAAA	C
2	CCCCA	ACCCC	CAACC	CCCAA	CBCCC	CCC	
3	BCBAC	CCCCC	CCCCC	CCCCC	ACCCA	CBABC	C
4	CCCCA	ACACC	CCCBC	CCCCC	CACCC	CCABA	
5	AAABC	AABCB	BCCAC	BCBBC	CAAAA	BABAA	C
6	BCACC	BAAAA	ACCAA	AAAAA	ACBAA	AAAAA	
7	AAAAA	AAAAA	AAABA	CCAAA	AAAAA	AAAAA	A
8	AABAA	AAABA	AAAAA	AAAAA	AAAAA	AABBB	A
9	CACBC	CBBCA	AAACB	CABAB	AAACB	ABCCC	
10	BABAA	CBBA	AAAAA	BACCC	ACCCC	AAAAA	C
11	CCCAA	ABCAA	ACACB	AAACC	CACCC	ACACC	
12	AAABC	CCCCA	BCCAA	ACCCA	ACCA	AAAAA	A

# 1955

1	BBACB	ABACA	CABAA	CCCCC	CBCCC	ABCCC	A
2	AACCB	CCCCA	CCCCA	CABAC	AACCC	AAE	
3	AAAAA	BCCCC	CCCCC	CACCA	ABCCC	AAAAA	C
4	ACCCC	CCCAC	ABAAA	AACAB	CAACC	CCCCC	
5	CBBA	ACABA	ACAAA	AAAAA	AAAB	CCCCC	B
6	CAACC	CBAB	AAAAA	AAAAA	BACCC	CCBCA	
7	BCBAA	AAAAA	BCAAA	AAAAA	ABBA	AAABA	A
8	AABCA	CCAAA	AAACA	ABAAA	AAAAA	CBCAA	A
9	CAABA	ACAAA	AAAAA	BBAAC	BCACA	BAABC	
10	CABCC	CBBCA	AAAAA	ACCCA	ACCCC	BABAA	C
11	CCBAA	AACCB	CCCCC	BBCCC	AAAAA	AAAB	
12	CBCCC	BCCCC	CCBA	AAAB	CAABC	CCCAA	B

# 1956

1	CCCCC	CCCCC	CCCAA	AAACC	ABBBB	ACCCC	C
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3	CCACC	CAAAA	CBAAA	AAACC	CCACC	CCCB	C
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7	AAAAA	ACCCC	CCCCA	ACCCC	CBAAA	ABAAA	B
8	AAACA	CCCB	CCCCC	CCCCC	CAABB	AAAAA	B
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# 1957

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# 1958

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9	ABAAA	BCCCC	CCCCC	CACCC	CCAB	AAAAA	
10	BCAAC	CCCCC	BCACC	CCCB	AAACC	AAAAA	C
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# 1959

1	BAAAC	CCCCC	CCCB	CCBA	AAAA	CBAC	C
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3	CCCCC	CCCA	AAAA	AAAA	AAAC	CCCC	B
4	CCCA	ACCB	AAAA	AAAA	AAAC	CCCC	
5	AAAB	ABBA	AAAA	BBCC	CBCC	CCCC	C
6	CCCA	AAAA	ABBA	ACCC	CCCB	CBCC	
7	CCCA	AAAA	ABBC	CCCC	CCCC	CCCC	A
8	AAAA	AAAA	CCCC	CCCC	CCCB	CCCA	A
9	AAAB	ACCC	CCCC	CCCA	CCAA	AAAA	
10	ACCA	AAAA	BCCC	CCCB	CBAA	ABAB	B
11	ABBB	AAAC	CCCC	AAAA	ACBA	ACAB	
12	ABAB	CCCC	CCCA	AAAA	ACCA	CBCA	A

# 1960

1	ACCC	CCCC	CCAA	ABBC	BBCC	AAAC	B
2	BCCC	CAAC	ACAA	CCBA	AAAA	ACC	
3	CCCC	AAAA	AAAC	AAAA	AAAA	ACCB	C
4	CBCA	AAAA	AAAA	ACBC	BAAC	CCCC	
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8	AAAA	BAAA	AAAA	AAAC	CCCC	CAAA	A
9	AAAA	AAAA	ACAB	CCCC	ACCC	CCAA	
10	ABBA	ABBA	ACCC	CCAA	ACAC	BAAA	A
11	AAAA	AAAA	BCBC	CCCA	AAAA	AAAA	
12	BAAA	AAAA	ACBC	CCAA	CAAA	BCCB	B

# 1961

1	CAAA	CBCA	ABCC	AAAC	BBAA	AAAA	A
2	CCCB	CCCC	ABBA	ABAB	ABAA	ACC	
3	CBAA	ACCA	AAAA	AAAA	AAAB	ACCC	A
4	ACCC	CAAA	AAAC	AAAA	ACCC	ACAC	
5	CAAA	ACCA	AAAA	ACCC	CBAC	CCCA	A
6	AAAA	AAAB	AAAA	CCCC	CCAA	BAAC	
7	AAAA	ABBA	ABBA	ACCC	CAAC	ACCC	C
8	AAAA	AAAA	ACCC	CCBA	ABAC	CBAA	A
9	AAAA	AAAC	CBAA	AAAA	CCAB	ABBA	
10	CCCB	ACBA	AAAA	ACCC	CCCA	BACC	A
11	ACBA	ACAB	CBBC	CBAA	ABAA	AAAA	
12	CCCC	CCAC	CAAA	AAAA	AAAA	ACCC	A

1962

1	AAAAA	ABRAC	CCBCC	CAACA	AAAAA	AAAAA	A
2	AAACC	CCBBB	ACCCC	CAAAA	AAACB	CBA	
3	CCCBG	CAAAC	CCCAA	ABAAA	AAACC	CAAAA	A
4	AAAAA	CCCBG	BBAAA	AAAAA	BAAAA	ACCCC	
5	CCCBG	CCAAA	BAAAA	AAAAA	AAAAA	CCCBG	C
6	BCCBA	CAAAA	AAAAA	AAAAA	CCCCC	CCCCC	
7	BCCBA	AAAAA	AAACC	AAACC	CCCCA	CCCCC	A
8	ABABA	AAAAA	ACCCC	CCCCC	CCCCC	BCAAA	B
9	ABABA	AAACC	CCCCC	CCCCC	CCCCC	AAAAA	
10	AAAAA	ACCCC	CCCCC	CCCCC	AAAAA	AAAAA	A
11	ABBCG	CCCBG	CCCCC	CAAAA	BBBBB	AAAAA	
12	AAACC	CCCBG	CCCBG	ABCCB	BAAAA	BAAAA	C

1963

1	BAACC	BCCCB	CCBAA	AAAAA	AAAAA	AAACC	C
2	CABCB	CCACC	ABABC	AAAAA	AAAAA	AAA	
3	ACBCC	ABCBB	CAAAA	ABCCB	AAACC	AAACA	A
4	CAAAA	AAACC	CCCCC	CCCAA	ACCCC	CCABB	
5	ACCCA	ACCCC	CCBCA	AAAAA	CCCBG	CCAAA	A
6	AAAAA	ACCCC	ACCAA	BACAC	AAABB	AAABB	
7	AAACC	CCBCC	CCBCC	ABBCG	AAAAA	ABACC	C
8	CCCCC	CCBCA	ACCCC	CCAAA	AAACC	CCCCC	C
9	CBCCC	ACCCC	ACCAA	AAAAA	AAACA	AAABB	
10	BAABA	ACCAA	AAAAA	AAAAA	ACCCB	BACCC	C
11	CCCAA	AAAAA	AAAAA	ACCCC	CCBCA	CAACC	
12	CCARB	AAAAA	ABCCG	CCCCC	AAAAA	ACCCC	B

1964

1	AAAAA	ACCCC	CCCCC	CAAAA	ACCCC	CCAAA	A
2	AAACC	CCCCC	AAAAA	AAABB	CCAAA	AAAA	
3	AAACC	BCCCA	AAAAA	BAABB	BAAAA	AAAAA	C
4	CCCCC	CCAAA	AAACC	BAABA	ACCCC	ACCCB	
5	CCAAA	AAAAA	ABCAA	ABAAA	AAACC	CCCCC	A
6	BAAAA	CCCCA	BAAAA	ACCCC	CACCC	CCBAA	
7	ABCCC	CAACA	AAAAA	BCCCC	CCCCC	AAACC	C
8	CCAAA	AAAAA	CCCCC	CBBCA	ACACC	CCCCC	A
9	AAAAA	ACCCC	CCCCC	CAAAA	ACCCC	BAAAA	
10	AAACC	CCBCC	CAAAA	ACCCC	CCCAA	AAAAA	A
11	CCCCC	CCAAA	AAACC	CCCCA	AAAAA	AAACC	
12	CCCCC	AAAAA	ACCCA	AAAAA	AAAAA	CCCCC	C



# 1965

1	C AAAA	A A C C C	C A A A A	A A A A A	A A A A A	A A A B A	A
2	A C C C C	C C A A A	A A A A B	A A B C C	A A A A A	A A A	
3	A B B A A	C A A A A	A A A A A	A A A A A	A A A A A	A A A A A	A
4	C C A A A	A B A A B	C C C B C	A A C A A	A A A A A	A C C C A	
5	A A A A C	C C C C C	C C C C B	A A A A A	C C A B B	C A A A A	A
6	C C C C C	C C C C A	A A A C C	A A B C C	B C C C A	A A A C C	
7	C C C C C	A A B B C	C C C C C	C C C C C	B C A A A	A C C C C	C
8	C B C C C	C C C C C	C C C C C	C C C A A	A A A C C	C C C C C	C
9	C C C C C	C C C C C	C C C C C	A A A A A	A B C C C	C A A C C	
10	C C C C C	C C C C C	C C C C C	A A A A A	C C A A A	C C C C C	C
11	C C C C C	A A A C C	C C A A C	C B B A A	A A A A C	C C C C C	
12	A A A C A	A A C C C	C C C C C	A A B A A	A C C B A	A A A A A	A

# 1966

1	A B C C C	C C C C B	C C C A A	A A A A C	C C A A B	A A A A A	A
2	B C C C C	C C C C C	C A A A A	A A A A A	A A A A A	A A A	
3	A A A C C	C C A A A	B B C A C	C B A A A	A A C C B	A A A A C	C
4	C C C C C	C C C A A	A A A A A	A A A A C	C A A A A	A A A C C	
5	C C C C C	C C A A A	A A A A A	C C C C C	A A A A A	C C C C C	C
6	C C C C A	A A A A B	C C C C C	C A A A A	A A C C C	C C C C C	
7	C C C B A	A A C C C	C C C A C	B A A A A	C C C C C	C C A A C	C
8	C C C C C	C C C C A	A A A A A	A A C C C	C C C C C	C C C C C	C
9	C C C C C	A A A A A	A A A C C	C C C C C	C C C C C	C C C C C	
10	C C C A A	A A A A A	A C C C C	C C C C C	C C C C C	C C C C B	A
11	A A A A A	A A B C C	C C C C B	C B C A C	C C C C C	C C A A A	
12	A A A C C	C C C C C	C C C C C	B B C C C	C A C A A	A B A A A	A

# 1967

1	A C C C C	A A A A A	C C C C C	C C A A A	A A A A A	A A A A A	A
2	A A A A B	A C C C C	C C C A A	A A A A C	B C A A A	A A A	
3	A A A A A	A B A C C	A A B C A	A A A C C	C C A A A	A A A A A	A
4	A A C C C	C C C C C	C C A A B	C C C C C	C C A A A	A A A A A	
5	A B C C C	C A A A A	C C C C C	C C B C C	C A A A A	B C B B C	C
6	C C C C A	B C C C C	C C B C C	C C C A A	C B B A C	C C C C C	
7	A B C C C	A A A A A	C C C C C	C C C C C	C C C C C	C C C C C	C
8	C C C B A	A A A C C	B B C C C	C C C C B	B A C C C	C C C C C	A
9	A A A A A	B C C C C	C C C C C	B C C C B	B C C C C	C A A A A	
10	A A C C C	C B B C C	C C C C C	C C C C C	C C C A A	A A C C B	B
11	C C B A A	B C C C C	C C C B C	C C C C C	A A A A A	A A B A A	
12	A A A A C	C C C C C	C C B B C	B A B B B	A A A A A	A A A A A	A

1968

1	ACCCC	CCCCC	CCCCC	AAAAA	AAAAA	AAACC	C
2	CCCCC	CCCCC	AAAAA	ABBA	AAAAA	ACCC	
3	CCCCC	CCCCA	AAAAA	BAAAA	AAACC	CCCCC	C
4	CCCCC	AAAC	CAAAA	AAAAA	CCCCC	CCCCC	
5	CAAAA	ACCCB	AAAAA	ABCCC	CCCCC	CCCA	A
6	CCCCC	CAAAA	ABCC	CCCCC	CAAAA	AAACC	
7	CAAAA	AAAC	CCCCC	CBAAA	AAAC	CCCCC	C
8	AAAC	CCCCC	CCCA	AAAAA	CCCCC	CCCCC	A
9	ACCCC	CCCA	AAAAA	AAACC	CCCCC	BAAAA	
10	CCCCC	CBAAA	BAAAA	ACCCC	CCCCA	CCABA	A
11	CCABA	AAAAA	AAACC	CCCCC	CCCCC	CCCA	
12	AAAAA	AAAC	CCCCC	CCCCC	CCCA	AAAAA	A

1969

1	AAAAA	BCCCC	CCCCC	CCCCC	CCCA	AAAAA	A
2	ABCCC	CCCCC	CCCCC	CCAA	AAAAA	ACC	
3	AAAC	CCCCC	CCCCC	CBAC	CCCCA	AAAAA	A
4	CCCCC	CCCCC	ABCC	CCCCC	AAAAA	AAACC	
5	CCCCC	CCAA	AAACC	CCCA	AAAAA	AAACC	C
6	CCCCC	CABCC	CCCCA	AAAAA	AAACC	CCCCC	
7	CCCCC	BCCCC	AAAAA	AAAAA	ACCCC	CCCCA	A
8	ACCCC	CAAAA	AAAAA	ACCCC	CCCCC	BAACB	C
9	CCCCA	AAAB	AAAAA	ACCCC	CCCCC	CCCCA	
10	AAAAA	AAAAA	AAAAA	CCCCC	CCCCB	CCCCC	A
11	AAAAA	CAAB	CCCCC	CCCCC	CCCCC	ABAAA	
12	AAAAA	BBBCC	CCCCC	CCCCC	CCAA	AAAAA	A

1970

1	AAABC	CCCCC	CCCCC	CCCA	AAAAA	ABBA	C
2	BCCCC	CCCCA	ABBA	AAAAA	ABBA	ACC	
3	CCCCC	CCCB	BCBA	AAAAA	ABBA	BCCCC	C
4	BCBA	AAAAA	AAAAA	CCCA	ACCCC	CCCCA	
5	AAAAA	AAAAA	ACCCC	CAAC	CCCCC	CCAA	A
6	AAAAA	AAACC	CCCCC	CCCCC	CCCA	ACAB	
7	AAAC	CCBA	CCCCC	CCCCC	ABBA	BCBA	A
8	CCCCC	ACCCC	CCCCC	ABBA	AAAAA	AAAAA	A
9	CCCCC	CCCCC	CCAA	AAAAA	AAAAA	AAACC	
10	CCCCC	CCCCC	AAAAA	AAAB	CBAA	ACBC	C
11	CCCCA	AAAAA	AAAC	BCCB	AAACC	CCCCC	
12	CCBA	AAAAA	AAACC	CAAA	AAACC	CCCCA	A

# 1971

1	AAAAA	AACCC	AAAAA	AACCC	CCCCC	AAAAA	A
2	AAABC	CAAAA	AAACC	CCCCC	CCCCA	AAA	
3	ACCCC	CAAAA	AAACC	CCCCC	CCAAA	BAAAC	C
4	CCCAA	AAACC	CCCCC	CCCAA	ABCAA	CCCAA	
5	AAABA	CCCCC	CCCCC	AAAAA	ABBCC	CCCAA	A
6	CCCCC	CCCCC	CCCCC	AAABA	BBBCA	AAACC	
7	CCCCC	BACCC	CCAAA	AAACC	CCCAA	ACCCC	C
8	CCCCC	CCAAA	AAAAA	ABBAA	AACCC	CCCCC	C
9	CCCCA	AAAAA	AACCB	BAACC	CCAAC	CCCCA	
10	AAAAA	CCCAA	AAACC	CCCCC	AACCC	CCAAA	A
11	AAACC	CCCA	CCCCC	CCCB	CCAAA	AAAAA	
12	CCCCC	BCCCC	CCCCC	CBAAA	AAAAA	AACCB	C

# 1972

1	CCCCC	CCCCC	CCCCC	AAABA	BCCCC	CCCCC	C
2	CABCC	CCCCB	AAAAA	AACCC	CCCB	CCCC	
3	ACCCC	CAAAA	AAAAA	CCCCC	CCCCC	CAACC	C
4	CCCAA	AAACC	CCCCC	CCCB	CCAAA	ABBCC	
5	CAAAA	AABCC	CCCCC	AACAA	AACCB	CCAAA	A
6	AAACC	CCCCA	AACBA	BCAAC	CCCCA	AAAAA	
7	AABCC	CBACC	BAAAA	CCCCC	CCAAA	AAAAA	C
8	CAAAA	ACCCC	CCCCC	CAAAA	AAAAA	CAAAA	B
9	AAACC	CCAAA	AAAAA	AAAAA	ACAAA	AAAAA	
10	CCCCC	CCCB	ABAAA	AAABA	AAAAA	ACCAA	C
11	CBCCC	CAAAA	BCCBB	AAAAA	AACCC	CCCCC	
12	ABCCC	CBCCC	CCAAA	AAAAA	ACCCC	CCCB	C

# 1973

1	CCCCC	CAAAA	AAAAA	AAACA	CCCCC	CCCCC	C
2	CCABA	AAAAA	AAAAA	ACCCC	CCCCC	CCC	
3	CCBCC	AAABA	AAAAA	AAACC	CCCCC	CCCCC	A
4	AAAAA	AAAAA	CCCCC	CCCCC	CCCCC	CCBAA	
5	AAAAA	AABBA	ACBAA	CCCCC	CACBC	CCAAA	A
6	AAAAA	AAAB	CCCCC	CACCC	CCBAA	BBCAA	
7	AAACB	AACCC	CCCCC	CBCCA	CACCC	AAAAA	A
8	ABCCC	AACAC	CCCCC	CCAAC	CBAAA	AAABA	A
9	BCCCA	AABCC	CCAAC	CCCCA	ABAB	BAABB	
10	CAAAA	AACCC	CCCCC	AAAAA	AACCC	CCBAA	A
11	AAAC	CCCCC	CCBAA	ABBAC	CCBAA	BAAAA	
12	AAACC	CCCCC	ACCB	ACCAA	AAABA	ACCCC	C

# 1974

1	CCCCC	CCCCC	CCCAA	AAAAA	AAACC	CCCCC	C
2	CCCCC	CCCAA	AAAAA	ABACC	CCCCC	CCC	
3	CCCCC	CAAAA	AAAAA	AAACC	CCCCA	CCCCC	C
4	CCAAA	AAAAA	AAAAA	CBCCC	CCCCC	CBCAA	
5	AAACC	BCAAA	ABCCC	CCCCC	CCCCC	CAACA	A
6	AAAAA	AAACC	CCCCC	CCCCC	CCACA	AAAAA	
7	AAAAA	CCCCC	CCCCC	CCCCC	CCAAA	AAAAA	A
8	ACCCC	CCCCC	CCCCC	CCCAA	AAAAA	CCCCC	C
9	CCCCC	CCCCC	CCBCC	BAAAA	AAACC	CCCCC	
10	CCCCC	CCCCC	CCAAA	AAAAA	ACCCC	CCCCC	C
11	CCCCC	CCCAA	AAAAA	AAACC	CCCCC	CCCCC	
12	CCCCC	CAAAA	CAAAA	ACCCC	CCCCC	AAACC	C

# 1975

1	CCBBB	AACAA	ACCCC	CCCCC	CCAAA	ACCB	A
2	AAAAA	ACCCC	CCBCC	BBCCC	AAAAA	AAA	
3	ABBCA	ACCCB	CCBCC	CCCCC	AAACC	BBAAA	C
4	CCCCC	CCCCC	BAABC	CAAAA	BCBAA	AAABA	
5	ACCCC	CCCCC	CCCCC	ABBCB	CBAAA	ABCCC	B
6	CCCCC	CCCCA	AAAAA	BCCAA	ABAAA	ACCAA	
7	ACCCC	CCAAA	AAABA	BAAAA	AAACC	CBCCC	C
8	BAAAA	BACCA	AAAAA	ACBCC	CCCCC	CCCAA	A
9	ABCAA	ABAAA	AAAAA	ACCCB	CCCCC	ABAAA	
10	CBAAA	AAABA	CAACC	CBCCC	CBCCC	CCCAA	A
11	AAAAA	BAACC	CCACC	ACCCC	BCCAA	BAAAA	
12	ABAAA	ACCCC	BCBCC	CBCCC	CCAAA	AAABA	A

1	JAN	8	1947	00:00:00.0	-,+	1555	15
2	JAN	17	1947	00:00:00.0	+,-	1555	24
3	FEB	4	1947	00:00:00.0	-,+	1556	15
4	FEB	16	1947	00:00:00.0	+,-	1556	27
5	FEB	21	1947	00:00:00.0	-,+	1557	5
6	MARCH	12	1947	00:00:00.0	+,-	1557	24
7	APRIL	10	1947	00:00:00.0	+,-	1558	26
8	APRIL	19	1947	00:00:00.0	-,+	1559	8
9	MAY	10	1947	00:00:00.0	+,-	1560	2
10	MAY	21	1947	00:00:00.0	-,+	1560	13
11	JUNE	5	1947	00:00:00.0	+,-	1561	1
12	JUNE	14	1947	00:00:00.0	-,+	1561	10
13	JULY	5	1947	00:00:00.0	+,-	1562	4
14	JULY	19	1947	00:00:00.0	-,+	1562	18
15	AUG	1	1947	00:00:00.0	+,-	1563	4
16	AUG	13	1947	00:00:00.0	-,+	1563	16
17	AUG	28	1947	00:00:00.0	+,-	1564	4
18	SEPT	10	1947	00:00:00.0	-,+	1564	17
19	SEPT	22	1947	00:00:00.0	+,-	1565	2
20	OCT	8	1947	00:00:00.0	-,+	1565	18
21	OCT	22	1947	00:00:00.0	+,-	1566	5
22	NOV	3	1947	00:00:00.0	-,+	1566	17
23	NOV	10	1947	00:00:00.0	+,-	1566	24
24	NOV	15	1947	00:00:00.0	-,+	1567	2
25	NOV	26	1947	00:00:00.0	+,-	1567	13
26	DEC	3	1947	00:00:00.0	-,+	1567	20
27	DEC	23	1947	00:00:00.0	+,-	1568	13
28	JAN	7	1948	00:00:00.0	-,+	1569	1
29	JAN	17	1948	00:00:00.0	+,-	1569	11
30	JAN	26	1948	00:00:00.0	-,+	1569	20
31	FEB	15	1948	00:00:00.0	+,-	1570	13
32	FEB	21	1948	00:00:00.0	-,+	1570	19
33	MARCH	13	1948	00:00:00.0	+,-	1571	13
34	MARCH	18	1948	00:00:00.0	-,+	1571	18
35	MARCH	25	1948	00:00:00.0	+,-	1571	25
36	APRIL	1	1948	00:00:00.0	-,+	1572	5
37	APRIL	7	1948	00:00:00.0	+,-	1572	11
38	APRIL	13	1948	00:00:00.0	-,+	1572	17
39	APRIL	21	1948	00:00:00.0	+,-	1572	25
40	APRIL	30	1948	00:00:00.0	-,+	1573	7
41	MAY	4	1948	00:00:00.0	+,-	1573	11
42	MAY	10	1948	00:00:00.0	-,+	1573	17
43	MAY	18	1948	00:00:00.0	+,-	1573	25
44	MAY	27	1948	00:00:00.0	-,+	1574	7
45	JUNE	17	1948	00:00:00.0	+,-	1575	1
46	JUNE	26	1948	00:00:00.0	-,+	1575	10
47	JULY	13	1948	00:00:00.0	+,-	1575	27
48	JULY	21	1948	00:00:00.0	-,+	1576	8
49	AUG	7	1948	00:00:00.0	+,-	1576	25
50	AUG	27	1948	00:00:00.0	-,+	1577	18

51	SEPT	3	1948	00:00:00.0	+, -	1577	25
52	SEPT	24	1948	00:00:00.0	-, +	1578	19
53	OCT	5	1948	00:00:00.0	+, -	1579	3
54	OCT	23	1948	00:00:00.0	-, +	1579	21
55	NOV	2	1948	00:00:00.0	+, -	1580	4
56	NOV	28	1948	00:00:00.0	-, +	1581	3
57	DEC	26	1948	00:00:00.0	-, +	1582	4
58	DEC	30	1948	00:00:00.0	+, -	1582	8
59	JAN	24	1949	00:00:00.0	+, -	1583	6
60	FEB	18	1949	00:00:00.0	-, +	1584	4
61	MARCH	13	1949	00:00:00.0	+, -	1584	27
62	MARCH	23	1949	00:00:00.0	-, +	1585	10
63	APRIL	8	1949	00:00:00.0	+, -	1585	26
64	APRIL	21	1949	00:00:00.0	-, +	1586	12
65	MAY	4	1949	00:00:00.0	+, -	1586	25
66	MAY	18	1949	00:00:00.0	-, +	1587	12
67	MAY	31	1949	00:00:00.0	+, -	1587	25
68	JUNE	6	1949	00:00:00.0	-, +	1588	4
69	JUNE	11	1949	00:00:00.0	+, -	1588	9
70	JUNE	18	1949	00:00:00.0	-, +	1588	16
71	JUNE	25	1949	00:00:00.0	+, -	1588	23
72	JULY	5	1949	00:00:00.0	-, +	1589	6
73	JULY	22	1949	00:00:00.0	+, -	1589	23
74	JULY	29	1949	00:00:00.0	-, +	1590	3
75	AUG	3	1949	00:00:00.0	+, -	1590	8
76	AUG	8	1949	00:00:00.0	-, +	1590	13
77	AUG	17	1949	00:00:00.0	+, -	1590	22
78	AUG	25	1949	00:00:00.0	-, +	1591	3
79	SEPT	12	1949	00:00:00.0	+, -	1591	21
80	SEPT	21	1949	00:00:00.0	-, +	1592	3
81	OCT	8	1949	00:00:00.0	+, -	1592	20
82	OCT	18	1949	00:00:00.0	-, +	1593	3
83	NOV	5	1949	00:00:00.0	+, -	1593	21
84	NOV	13	1949	00:00:00.0	-, +	1594	2
85	DEC	6	1949	00:00:00.0	-, +	1594	25
86	DEC	27	1949	00:00:00.0	+, -	1595	19
87	JAN	5	1950	00:00:00.0	-, +	1596	1
88	JAN	9	1950	00:00:00.0	+, -	1596	5
89	JAN	17	1950	00:00:00.0	-, +	1596	13
90	JAN	24	1950	00:00:00.0	+, -	1596	20
91	FEB	3	1950	00:00:00.0	-, +	1597	3
92	FEB	7	1950	00:00:00.0	+, -	1597	7
93	FEB	12	1950	00:00:00.0	-, +	1597	12
94	FEB	28	1950	00:00:00.0	-, +	1598	1
95	MARCH	14	1950	00:00:00.0	-, +	1598	15
96	MARCH	19	1950	00:00:00.0	+, -	1598	20
97	APRIL	9	1950	00:00:00.0	-, +	1599	14
98	APRIL	15	1950	00:00:00.0	+, -	1599	20
99	APRIL	21	1950	00:00:00.0	-, +	1599	26
100	APRIL	27	1950	00:00:00.0	+, -	1600	5

101	MAY	7	1950	00:00:00.0	- , +	1600	15
102	MAY	13	1950	00:00:00.0	+ , -	1600	21
103	MAY	17	1950	00:00:00.0	- , +	1600	25
104	MAY	23	1950	00:00:00.0	+ , -	1601	4
105	JUNE	14	1950	00:00:00.0	- , +	1601	26
106	JUNE	22	1950	00:00:00.0	+ , -	1602	7
107	JULY	20	1950	00:00:00.0	+ , -	1603	8
108	AUG	7	1950	00:00:00.0	- , +	1603	26
109	AUG	14	1950	00:00:00.0	+ , -	1604	6
110	AUG	19	1950	00:00:00.0	- , +	1604	11
111	AUG	28	1950	00:00:00.0	+ , -	1604	20
112	SEPT	2	1950	00:00:00.0	- , +	1604	25
113	SEPT	12	1950	00:00:00.0	+ , -	1605	8
114	SEPT	16	1950	00:00:00.0	- , +	1605	12
115	SEPT	23	1950	00:00:00.0	+ , -	1605	19
116	SEPT	28	1950	00:00:00.0	- , +	1605	24
117	OCT	10	1950	00:00:00.0	+ , -	1606	9
118	OCT	15	1950	00:00:00.0	- , +	1606	14
119	OCT	20	1950	00:00:00.0	+ , -	1606	19
120	OCT	30	1950	00:00:00.0	- , +	1607	2
121	NOV	8	1950	00:00:00.0	+ , -	1607	11
122	NOV	11	1950	00:00:00.0	- , +	1607	14
123	NOV	16	1950	00:00:00.0	+ , -	1607	19
124	NOV	28	1950	00:00:00.0	- , +	1608	4
125	DEC	3	1950	00:00:00.0	+ , -	1608	9
126	DEC	7	1950	00:00:00.0	- , +	1608	13
127	DEC	12	1950	00:00:00.0	+ , -	1608	18
128	DEC	25	1950	00:00:00.0	- , +	1609	4
129	DEC	31	1950	00:00:00.0	+ , -	1609	10
130	JAN	6	1951	00:00:00.0	- , +	1609	16
131	JAN	10	1951	00:00:00.0	+ , -	1609	20
132	JAN	17	1951	00:00:00.0	- , +	1609	27
133	JAN	26	1951	00:00:00.0	+ , -	1610	9
134	FEB	2	1951	00:00:00.0	- , +	1610	16
135	FEB	9	1951	00:00:00.0	+ , -	1610	23
136	FEB	14	1951	00:00:00.0	- , +	1611	1
137	FEB	23	1951	00:00:00.0	+ , -	1611	10
138	MARCH	1	1951	00:00:00.0	- , +	1611	16
139	MARCH	6	1951	00:00:00.0	+ , -	1611	21
140	MARCH	14	1951	00:00:00.0	- , +	1612	2
141	MARCH	22	1951	00:00:00.0	+ , -	1612	10
142	MARCH	30	1951	00:00:00.0	- , +	1612	18
143	APRIL	2	1951	00:00:00.0	+ , -	1612	21
144	APRIL	11	1951	00:00:00.0	- , +	1613	3
145	APRIL	18	1951	00:00:00.0	+ , -	1613	10
146	APRIL	27	1951	00:00:00.0	- , +	1613	19
147	MAY	1	1951	00:00:00.0	+ , -	1613	23
148	MAY	10	1951	00:00:00.0	- , +	1614	5
149	MAY	14	1951	00:00:00.0	+ , -	1614	9
150	MAY	24	1951	00:00:00.0	- , +	1614	19

151	JUNE	11	1951	00:00:00.0	+, -	1615	10
152	JUNE	17	1951	00:00:00.0	-, +	1615	16
153	JULY	6	1951	00:00:00.0	+, -	1616	8
154	JULY	15	1951	00:00:00.0	-, +	1616	17
155	JULY	31	1951	00:00:00.0	+, -	1617	6
156	AUG	11	1951	00:00:00.0	-, +	1617	17
157	AUG	29	1951	00:00:00.0	+, -	1618	8
158	SEPT	9	1951	00:00:00.0	-, +	1618	19
159	SEPT	26	1951	00:00:00.0	+, -	1619	9
160	OCT	7	1951	00:00:00.0	-, +	1619	20
161	OCT	24	1951	00:00:00.0	+, -	1620	10
162	NOV	1	1951	00:00:00.0	-, +	1620	18
163	NOV	18	1951	00:00:00.0	+, -	1621	8
164	NOV	27	1951	00:00:00.0	-, +	1621	17
165	DEC	15	1951	00:00:00.0	+, -	1622	8
166	DEC	26	1951	00:00:00.0	-, +	1622	19
167	JAN	1	1952	00:00:00.0	+, -	1622	25
168	JAN	17	1952	00:00:00.0	-, +	1623	14
169	JAN	30	1952	00:00:00.0	-, +	1623	27
170	FEB	5	1952	00:00:00.0	+, -	1624	6
171	FEB	15	1952	00:00:00.0	-, +	1624	16
172	FEB	24	1952	00:00:00.0	+, -	1624	25
173	FEB	28	1952	00:00:00.0	-, +	1625	2
174	MARCH	3	1952	00:00:00.0	+, -	1625	6
175	MARCH	16	1952	00:00:00.0	-, +	1625	19
176	MARCH	21	1952	00:00:00.0	+, -	1625	24
177	MARCH	25	1952	00:00:00.0	-, +	1626	1
178	MARCH	30	1952	00:00:00.0	+, -	1626	6
179	APRIL	10	1952	00:00:00.0	-, +	1626	17
180	APRIL	18	1952	00:00:00.0	+, -	1626	25
181	APRIL	22	1952	00:00:00.0	-, +	1627	2
182	APRIL	28	1952	00:00:00.0	+, -	1627	8
183	MAY	11	1952	00:00:00.0	-, +	1627	21
184	MAY	23	1952	00:00:00.0	+, -	1628	6
185	JUNE	6	1952	00:00:00.0	-, +	1628	20
186	JUNE	22	1952	00:00:00.0	+, -	1629	9
187	JULY	3	1952	00:00:00.0	-, +	1629	20
188	JULY	18	1952	00:00:00.0	+, -	1630	8
189	JULY	31	1952	00:00:00.0	-, +	1630	21
190	AUG	16	1952	00:00:00.0	+, -	1631	10
191	AUG	24	1952	00:00:00.0	-, +	1631	18
192	SEPT	11	1952	00:00:00.0	+, -	1632	9
193	SEPT	22	1952	00:00:00.0	-, +	1632	20
194	SEPT	25	1952	00:00:00.0	+, -	1632	23
195	SEPT	30	1952	00:00:00.0	-, +	1633	1
196	OCT	8	1952	00:00:00.0	+, -	1633	9
197	OCT	17	1952	00:00:00.0	-, +	1633	18
198	OCT	21	1952	00:00:00.0	+, -	1633	22
199	OCT	27	1952	00:00:00.0	-, +	1634	1
200	NOV	6	1952	00:00:00.0	+, -	1634	11



201	NOV	12	1952	00:00:00.0	- , +	1634	17
202	NOV	17	1952	00:00:00.0	+ , -	1634	22
203	NOV	23	1952	00:00:00.0	- , +	1635	1
204	DEC	1	1952	00:00:00.0	+ , -	1635	9
205	DEC	7	1952	00:00:00.0	- , +	1635	15
206	DEC	28	1952	00:00:00.0	+ , -	1636	9
207	JAN	4	1953	00:00:00.0	- , +	1636	16
208	JAN	24	1953	00:00:00.0	+ , -	1637	9
209	JAN	31	1953	00:00:00.0	- , +	1637	16
210	FEB	21	1953	00:00:00.0	+ , -	1638	10
211	MARCH	11	1953	00:00:00.0	- , +	1639	1
212	MARCH	19	1953	00:00:00.0	+ , -	1639	9
213	APRIL	8	1953	00:00:00.0	- , +	1640	2
214	APRIL	18	1953	00:00:00.0	+ , -	1640	12
215	APRIL	23	1953	00:00:00.0	- , +	1640	17
216	MAY	15	1953	00:00:00.0	+ , -	1641	12
217	MAY	23	1953	00:00:00.0	- , +	1641	20
218	JULY	20	1953	00:00:00.0	+ , -	1643	24
219	JULY	25	1953	00:00:00.0	- , +	1644	2
220	AUG	9	1953	00:00:00.0	+ , -	1644	17
221	AUG	14	1953	00:00:00.0	- , +	1644	22
222	AUG	28	1953	00:00:00.0	+ , -	1645	9
223	OCT	10	1953	00:00:00.0	+ , -	1646	25
224	OCT	22	1953	00:00:00.0	- , +	1647	10
225	NOV	5	1953	00:00:00.0	+ , -	1647	24
226	NOV	16	1953	00:00:00.0	- , +	1648	8
227	NOV	24	1953	00:00:00.0	+ , -	1648	16
228	NOV	29	1953	00:00:00.0	- , +	1648	21
229	DEC	3	1953	00:00:00.0	+ , -	1648	25
230	DEC	13	1953	00:00:00.0	- , +	1649	8
231	DEC	18	1953	00:00:00.0	+ , -	1649	13
232	JAN	15	1954	00:00:00.0	+ , -	1650	14
233	APRIL	28	1954	00:00:00.0	- , +	1654	9
234	MAY	22	1954	00:00:00.0	- , +	1655	6
235	SEPT	10	1954	00:00:00.0	- , +	1659	9
236	OCT	18	1954	00:00:00.0	+ , -	1660	20
237	OCT	26	1954	00:00:00.0	- , +	1661	1
238	OCT	31	1954	00:00:00.0	+ , -	1661	6
239	NOV	4	1954	00:00:00.0	- , +	1661	10
240	NOV	19	1954	00:00:00.0	+ , -	1661	25
241	FEB	3	1955	00:00:00.0	+ , -	1664	20
242	FEB	15	1955	00:00:00.0	- , +	1665	5
243	MARCH	6	1955	00:00:00.0	+ , -	1665	24
244	MARCH	17	1955	00:00:00.0	- , +	1666	8
245	MARCH	31	1955	00:00:00.0	+ , -	1666	22
246	APRIL	9	1955	00:00:00.0	- , +	1667	4
247	APRIL	24	1955	00:00:00.0	+ , -	1667	19
248	MAY	4	1955	00:00:00.0	- , +	1668	2
249	MAY	26	1955	00:00:00.0	+ , -	1668	24
250	JUNE	23	1955	00:00:00.0	+ , -	1669	25

251	JUNE	28	1955	00:00:00.0	- , +	1670	3
252	OCT	10	1955	00:00:00.0	- , +	1673	26
253	NOV	4	1955	00:00:00.0	- , +	1674	24
254	NOV	8	1955	00:00:00.0	+ , -	1675	1
255	NOV	21	1955	00:00:00.0	- , +	1675	14
256	DEC	1	1955	00:00:00.0	+ , -	1675	24
257	DEC	15	1955	00:00:00.0	- , +	1676	11
258	JAN	14	1956	00:00:00.0	- , +	1677	14
259	JAN	27	1956	00:00:00.0	+ , -	1677	27
260	FEB	13	1956	00:00:00.0	- , +	1678	17
261	FEB	20	1956	00:00:00.0	+ , -	1678	24
262	MARCH	7	1956	00:00:00.0	- , +	1679	13
263	MARCH	20	1956	00:00:00.0	+ , -	1679	26
264	APRIL	5	1956	00:00:00.0	- , +	1680	15
265	APRIL	17	1956	00:00:00.0	+ , -	1680	27
266	APRIL	29	1956	00:00:00.0	- , +	1681	12
267	MAY	12	1956	00:00:00.0	+ , -	1681	25
268	MAY	28	1956	00:00:00.0	- , +	1682	14
269	JUNE	10	1956	00:00:00.0	+ , -	1682	27
270	JUNE	25	1956	00:00:00.0	- , +	1683	15
271	JULY	8	1956	00:00:00.0	+ , -	1684	1
272	JULY	24	1956	00:00:00.0	- , +	1684	17
273	AUG	6	1956	00:00:00.0	+ , -	1685	3
274	AUG	22	1956	00:00:00.0	- , +	1685	19
275	SEPT	7	1956	00:00:00.0	+ , -	1686	8
276	SEPT	18	1956	00:00:00.0	- , +	1686	19
277	OCT	4	1956	00:00:00.0	+ , -	1687	8
278	OCT	18	1956	00:00:00.0	- , +	1687	22
279	NOV	1	1956	00:00:00.0	+ , -	1688	9
280	NOV	14	1956	00:00:00.0	- , +	1688	22
281	NOV	22	1956	00:00:00.0	+ , -	1689	3
282	DEC	13	1956	00:00:00.0	- , +	1689	24
283	DEC	18	1956	00:00:00.0	+ , -	1690	2
284	JAN	14	1957	00:00:00.0	- , +	1691	2
285	JAN	20	1957	00:00:00.0	+ , -	1691	8
286	FEB	11	1957	00:00:00.0	- , +	1692	3
287	FEB	17	1957	00:00:00.0	+ , -	1692	9
288	MARCH	11	1957	00:00:00.0	- , +	1693	4
289	MARCH	18	1957	00:00:00.0	+ , -	1693	11
290	APRIL	9	1957	00:00:00.0	- , +	1694	6
291	APRIL	15	1957	00:00:00.0	+ , -	1694	12
292	MAY	6	1957	00:00:00.0	- , +	1695	6
293	JULY	13	1957	00:00:00.0	- , +	1697	20
294	JULY	28	1957	00:00:00.0	+ , -	1698	8
295	AUG	8	1957	00:00:00.0	- , +	1698	19
296	AUG	12	1957	00:00:00.0	+ , -	1698	23
297	AUG	18	1957	00:00:00.0	- , +	1699	2
298	AUG	22	1957	00:00:00.0	+ , -	1699	6
299	SEPT	12	1957	00:00:00.0	- , +	1699	27
300	SEPT	18	1957	00:00:00.0	+ , -	1700	6

301	SEPT	24	1957	00:00:00.0	- , +	1700	12
302	SEPT	28	1957	00:00:00.0	+ , -	1700	16
303	OCT	9	1957	00:00:00.0	- , +	1700	27
304	OCT	16	1957	00:00:00.0	+ , -	1701	7
305	NOV	6	1957	00:00:00.0	- , +	1702	1
306	NOV	14	1957	00:00:00.0	+ , -	1702	9
307	DEC	1	1957	00:00:00.0	- , +	1702	26
308	DEC	10	1957	00:00:00.0	+ , -	1703	8
309	DEC	29	1957	00:00:00.0	- , +	1703	27
310	JAN	9	1958	00:00:00.0	+ , -	1704	11
311	JAN	28	1958	00:00:00.0	- , +	1705	3
312	FEB	5	1958	00:00:00.0	+ , -	1705	11
313	FEB	25	1958	00:00:00.0	- , +	1706	4
314	MARCH	4	1958	00:00:00.0	+ , -	1706	11
315	MARCH	26	1958	00:00:00.0	- , +	1707	6
316	MARCH	31	1958	00:00:00.0	+ , -	1707	11
317	APRIL	10	1958	00:00:00.0	- , +	1707	21
318	APRIL	15	1958	00:00:00.0	+ , -	1707	26
319	APRIL	28	1958	00:00:00.0	- , +	1708	12
320	MAY	7	1958	00:00:00.0	+ , -	1708	21
321	MAY	13	1958	00:00:00.0	- , +	1708	27
322	MAY	21	1958	00:00:00.0	+ , -	1709	8
323	MAY	26	1958	00:00:00.0	- , +	1709	13
324	JUNE	2	1958	00:00:00.0	+ , -	1709	20
325	JUNE	9	1958	00:00:00.0	- , +	1709	27
326	JUNE	29	1958	00:00:00.0	+ , -	1710	20
327	JULY	12	1958	00:00:00.0	- , +	1711	6
328	JULY	16	1958	00:00:00.0	+ , -	1711	10
329	JULY	29	1958	00:00:00.0	- , +	1711	23
330	AUG	12	1958	00:00:00.0	+ , -	1712	10
331	AUG	23	1958	00:00:00.0	- , +	1712	21
332	SEPT	7	1958	00:00:00.0	+ , -	1713	9
333	SEPT	23	1958	00:00:00.0	- , +	1713	25
334	OCT	5	1958	00:00:00.0	+ , -	1714	10
335	OCT	21	1958	00:00:00.0	- , +	1714	26
336	OCT	31	1958	00:00:00.0	+ , -	1715	9
337	NOV	16	1958	00:00:00.0	- , +	1715	25
338	NOV	30	1958	00:00:00.0	+ , -	1716	12
339	DEC	17	1958	00:00:00.0	- , +	1717	2
340	JAN	15	1959	00:00:00.0	+ , -	1718	4
341	JAN	30	1959	00:00:00.0	- , +	1718	19
342	FEB	11	1959	00:00:00.0	+ , -	1719	4
343	FEB	26	1959	00:00:00.0	- , +	1719	19
344	MARCH	9	1959	00:00:00.0	+ , -	1720	3
345	MARCH	25	1959	00:00:00.0	- , +	1720	19
346	APRIL	4	1959	00:00:00.0	+ , -	1721	2
347	APRIL	24	1959	00:00:00.0	- , +	1721	22
348	APRIL	30	1959	00:00:00.0	+ , -	1722	1
349	MAY	17	1959	00:00:00.0	- , +	1722	18
350	JUNE	4	1959	00:00:00.0	+ , -	1723	9

351	JUNE	18	1959	00:00:00.0	+, -	1723	23
352	JULY	4	1959	00:00:00.0	-, +	1724	12
353	JULY	14	1959	00:00:00.0	+, -	1724	22
354	JULY	31	1959	00:00:00.0	-, +	1725	12
355	AUG	11	1959	00:00:00.0	+, -	1725	23
356	AUG	29	1959	00:00:00.0	-, +	1726	14
357	SEPT	7	1959	00:00:00.0	+, -	1726	23
358	SEPT	23	1959	00:00:00.0	-, +	1727	12
359	OCT	12	1959	00:00:00.0	+, -	1728	4
360	OCT	20	1959	00:00:00.0	-, +	1728	12
361	NOV	9	1959	00:00:00.0	+, -	172	5
362	NOV	16	1959	00:00:00.0	-, +	1729	12
363	DEC	6	1959	00:00:00.0	+, -	1730	5
364	DEC	14	1959	00:00:00.0	-, +	1730	13
365	DEC	23	1959	00:00:00.0	+, -	1730	22
366	DEC	29	1959	00:00:00.0	-, +	1731	1
367	JAN	3	1960	00:00:00.0	+, -	1731	6
368	JAN	13	1960	00:00:00.0	-, +	1731	16
369	JAN	29	1960	00:00:00.0	+, -	1732	5
370	FEB	7	1960	00:00:00.0	-, +	1732	14
371	FEB	28	1960	00:00:00.0	+, -	1733	8
372	MARCH	6	1960	00:00:00.0	-, +	1733	15
373	MARCH	27	1960	00:00:00.0	+, -	1734	9
374	APRIL	4	1960	00:00:00.0	-, +	1734	17
375	APRIL	24	1960	00:00:00.0	+, -	1735	10
376	MAY	3	1960	00:00:00.0	-, +	1735	19
377	MAY	25	1960	00:00:00.0	+, -	1736	14
378	MAY	29	1960	00:00:00.0	-, +	1736	18
379	JUNE	21	1960	00:00:00.0	+, -	1737	14
380	JUNE	28	1960	00:00:00.0	-, +	1737	21
381	JULY	15	1960	00:00:00.0	+, -	1738	11
382	JULY	26	1960	00:00:00.0	-, +	1738	22
383	AUG	20	1960	00:00:00.0	+, -	1739	20
384	AUG	27	1960	00:00:00.0	-, +	1739	27
385	SEPT	16	1960	00:00:00.0	+, -	1740	20
386	SEPT	28	1960	00:00:00.0	-, +	1741	5
387	OCT	12	1960	00:00:00.0	+, -	1741	19
388	OCT	18	1960	00:00:00.0	-, +	1741	25
389	NOV	11	1960	00:00:00.0	+, -	1742	22
390	NOV	20	1960	00:00:00.0	-, +	1743	4
391	DEC	12	1960	00:00:00.0	+, -	1743	26
392	DEC	18	1960	00:00:00.0	-, +	1744	5
393	JAN	16	1961	00:00:00.0	-, +	1745	7
394	FEB	1	1961	00:00:00.0	+, -	1745	23
395	FEB	11	1961	00:00:00.0	-, +	1746	6
396	FEB	27	1961	00:00:00.0	+, -	1746	22
397	MARCH	27	1961	00:00:00.0	+, -	1747	23
398	APRIL	7	1961	00:00:00.0	-, +	1748	7
399	APRIL	22	1961	00:00:00.0	+, -	1748	22
400	MAY	2	1961	00:00:00.0	-, +	1749	5

401	MAY	19	1961	00:00:00.0	+, -	1749	22
402	MAY	29	1961	00:00:00.0	-, +	1750	5
403	JUNE	16	1961	00:00:00.0	+, -	1750	23
404	JUNE	23	1961	00:00:00.0	-, +	1751	3
405	JULY	22	1961	00:00:00.0	-, +	1752	5
406	JULY	27	1961	00:00:00.0	+, -	1752	10
407	AUG	1	1961	00:00:00.0	-, +	1752	15
408	AUG	12	1961	00:00:00.0	+, -	1752	26
409	AUG	18	1961	00:00:00.0	-, +	1753	5
410	SEPT	9	1961	00:00:00.0	+, -	1753	27
411	SEPT	14	1961	00:00:00.0	-, +	1754	5
412	OCT	1	1961	00:00:00.0	+, -	1754	22
413	OCT	9	1961	00:00:00.0	-, +	1755	3
414	OCT	17	1961	00:00:00.0	+, -	1755	11
415	OCT	24	1961	00:00:00.0	-, +	1755	18
416	NOV	11	1961	00:00:00.0	+, -	1756	9
417	NOV	19	1961	00:00:00.0	-, +	1756	17
418	DEC	1	1961	00:00:00.0	+, -	1757	2
419	DEC	12	1961	00:00:00.0	-, +	1757	13
420	DEC	27	1961	00:00:00.0	+, -	1758	1
421	DEC	31	1961	00:00:00.0	-, +	1758	5
422	JAN	10	1962	00:00:00.0	+, -	1758	15
423	FEB	5	1962	00:00:00.0	+, -	1759	14
424	FEB	17	1962	00:00:00.0	-, +	1759	26
425	FEB	24	1962	00:00:00.0	+, -	1760	6
426	MARCH	14	1962	00:00:00.0	-, +	1760	24
427	APRIL	6	1962	00:00:00.0	+, -	1761	20
428	APRIL	13	1962	00:00:00.0	-, +	1761	27
429	APRIL	27	1962	00:00:00.0	+, -	1762	14
430	MAY	8	1962	00:00:00.0	-, +	1762	25
431	MAY	26	1962	00:00:00.0	+, -	1763	16
432	JUNE	7	1962	00:00:00.0	-, +	1764	1
433	JUNE	21	1962	00:00:00.0	+, -	1764	15
434	JULY	4	1962	00:00:00.0	-, +	1765	1
435	JULY	19	1962	00:00:00.0	+, -	1765	16
436	JULY	31	1962	00:00:00.0	-, +	1766	1
437	AUG	13	1962	00:00:00.0	+, -	1766	14
438	AUG	28	1962	00:00:00.0	-, +	1767	2
439	SEPT	10	1962	00:00:00.0	+, -	1767	15
440	SEPT	26	1962	00:00:00.0	-, +	1768	4
441	OCT	8	1962	00:00:00.0	+, -	1768	16
442	OCT	21	1962	00:00:00.0	-, +	1769	2
443	NOV	3	1962	00:00:00.0	+, -	1769	15
444	NOV	17	1962	00:00:00.0	-, +	1770	2
445	DEC	4	1962	00:00:00.0	+, -	1770	19
446	DEC	14	1962	00:00:00.0	-, +	1771	2
447	DEC	31	1962	00:00:00.0	+, -	1771	19
448	JAN	13	1963	00:00:00.0	-, +	1772	5
449	JAN	30	1963	00:00:00.0	+, -	1772	22
450	MARCH	2	1963	00:00:00.0	+, -	1773	26

451	MARCH	12	1963	00:00:00.0	- , +	1774	9
452	APRIL	10	1963	00:00:00.0	+ , -	1775	11
453	APRIL	19	1963	00:00:00.0	- , +	1775	20
454	APRIL	23	1963	00:00:00.0	+ , -	1775	24
455	APRIL	28	1963	00:00:00.0	- , +	1776	2
456	MAY	8	1963	00:00:00.0	+ , -	1776	12
457	MAY	15	1963	00:00:00.0	- , +	1776	19
458	MAY	21	1963	00:00:00.0	+ , -	1776	25
459	MAY	28	1963	00:00:00.0	- , +	1777	5
460	JUNE	7	1963	00:00:00.0	+ , -	1777	15
461	JUNE	21	1963	00:00:00.0	- , +	1778	2
462	JULY	4	1963	00:00:00.0	+ , -	1778	15
463	JULY	21	1963	00:00:00.0	- , +	1779	5
464	JULY	30	1963	00:00:00.0	+ , -	1779	14
465	AUG	18	1963	00:00:00.0	- , +	1780	6
466	AUG	25	1963	00:00:00.0	+ , -	1780	13
467	SEPT	14	1963	00:00:00.0	- , +	1781	6
468	OCT	22	1963	00:00:00.0	+ , -	1782	17
469	NOV	4	1963	00:00:00.0	- , +	1783	3
470	NOV	17	1963	00:00:00.0	+ , -	1783	16
471	DEC	3	1963	00:00:00.0	- , +	1784	5
472	DEC	13	1963	00:00:00.0	+ , -	1784	15
473	DEC	21	1963	00:00:00.0	- , +	1784	23
474	DEC	28	1963	00:00:00.0	+ , -	1785	3
475	JAN	1	1964	00:00:00.0	- , +	1785	7
476	JAN	8	1964	00:00:00.0	+ , -	1785	14
477	JAN	17	1964	00:00:00.0	- , +	1785	23
478	JAN	23	1964	00:00:00.0	+ , -	1786	2
479	JAN	28	1964	00:00:00.0	- , +	1786	7
480	FEB	4	1964	00:00:00.0	+ , -	1786	14
481	FEB	11	1964	00:00:00.0	- , +	1786	21
482	FEB	19	1964	00:00:00.0	+ , -	1787	2
483	FEB	23	1964	00:00:00.0	- , +	1787	6
484	MARCH	4	1964	00:00:00.0	+ , -	1787	16
485	MARCH	10	1964	00:00:00.0	- , +	1787	22
486	MARCH	31	1964	00:00:00.0	+ , -	1788	16
487	APRIL	8	1964	00:00:00.0	- , +	1788	24
488	APRIL	23	1964	00:00:00.0	+ , -	1789	12
489	MAY	3	1964	00:00:00.0	- , +	1789	22
490	MAY	24	1964	00:00:00.0	+ , -	1790	16
491	MAY	31	1964	00:00:00.0	- , +	1790	23
492	JUNE	6	1964	00:00:00.0	+ , -	1791	2
493	JUNE	10	1964	00:00:00.0	- , +	1791	6
494	JUNE	18	1964	00:00:00.0	+ , -	1791	14
495	JUNE	28	1964	00:00:00.0	- , +	1791	24
496	JULY	3	1964	00:00:00.0	+ , -	1792	2
497	JULY	7	1964	00:00:00.0	- , +	1792	6
498	JULY	17	1964	00:00:00.0	+ , -	1792	16
499	JULY	26	1964	00:00:00.0	- , +	1792	25
500	JULY	29	1964	00:00:00.0	+ , -	1793	1

501	AUG	3	1964	00:00:00.0	-,+	1793	6
502	AUG	11	1964	00:00:00.0	+,-	1793	14
503	AUG	20	1964	00:00:00.0	-,+	1793	23
504	AUG	25	1964	00:00:00.0	+,-	1794	1
505	AUG	31	1964	00:00:00.0	-,+	1794	7
506	SEPT	7	1964	00:00:00.0	+,-	1794	14
507	SEPT	17	1964	00:00:00.0	-,+	1794	24
508	SEPT	22	1964	00:00:00.0	+,-	1795	2
509	SEPT	27	1964	00:00:00.0	-,+	1795	7
510	OCT	4	1964	00:00:00.0	+,-	1795	14
511	OCT	12	1964	00:00:00.0	-,+	1795	22
512	OCT	18	1964	00:00:00.0	+,-	1796	1
513	OCT	24	1964	00:00:00.0	-,+	1796	7
514	NOV	1	1964	00:00:00.0	+,-	1796	15
515	NOV	8	1964	00:00:00.0	-,+	1796	22
516	NOV	15	1964	00:00:00.0	+,-	1797	2
517	NOV	20	1964	00:00:00.0	-,+	1797	7
518	NOV	28	1964	00:00:00.0	+,-	1797	15
519	DEC	6	1964	00:00:00.0	-,+	1797	23
520	DEC	26	1964	00:00:00.0	+,-	1798	16
521	JAN	2	1965	00:00:00.0	-,+	1798	23
522	JAN	8	1965	00:00:00.0	+,-	1799	2
523	JAN	12	1965	00:00:00.0	-,+	1799	6
524	FEB	2	1965	00:00:00.0	+,-	1799	27
525	FEB	8	1965	00:00:00.0	-,+	1800	6
526	APRIL	10	1965	00:00:00.0	+,-	1802	13
527	APRIL	16	1965	00:00:00.0	-,+	1802	19
528	MAY	5	1965	00:00:00.0	+,-	1803	11
529	MAY	15	1965	00:00:00.0	-,+	1803	21
530	JUNE	1	1965	00:00:00.0	+,-	1804	11
531	JUNE	10	1965	00:00:00.0	-,+	1804	20
532	JUNE	18	1965	00:00:00.0	+,-	1805	1
533	JUNE	25	1965	00:00:00.0	-,+	1805	8
534	JUNE	29	1965	00:00:00.0	+,-	1805	12
535	JULY	6	1965	00:00:00.0	-,+	1805	19
536	JULY	10	1965	00:00:00.0	+,-	1805	23
537	JULY	23	1965	00:00:00.0	-,+	1806	9
538	JULY	27	1965	00:00:00.0	+,-	1806	13
539	AUG	19	1965	00:00:00.0	-,+	1807	9
540	AUG	24	1965	00:00:00.0	+,-	1807	14
541	SEPT	16	1965	00:00:00.0	-,+	1808	10
542	SEPT	23	1965	00:00:00.0	+,-	1808	17
543	OCT	16	1965	00:00:00.0	-,+	1809	13
544	OCT	26	1965	00:00:00.0	+,-	1809	23
545	NOV	6	1965	00:00:00.0	-,+	1810	7
546	NOV	25	1965	00:00:00.0	+,-	1810	26
547	DEC	1	1965	00:00:00.0	-,+	1811	5
548	DEC	8	1965	00:00:00.0	+,-	1811	12
549	DEC	16	1965	00:00:00.0	-,+	1811	20
550	JAN	3	1966	00:00:00.0	+,-	1812	11

551	JAN	14	1966	00:00:00.0	- , +	1812	22
552	JAN	23	1966	00:00:00.0	- , +	1813	4
553	FEB	1	1966	00:00:00.0	+ , -	1813	13
554	FEB	12	1966	00:00:00.0	- , +	1813	24
555	MARCH	4	1966	00:00:00.0	+ , -	1814	17
556	MARCH	8	1966	00:00:00.0	- , +	1814	21
557	MARCH	30	1966	00:00:00.0	+ , -	1815	16
558	APRIL	9	1966	00:00:00.0	- , +	1815	26
559	APRIL	29	1966	00:00:00.0	+ , -	1816	19
560	MAY	8	1966	00:00:00.0	- , +	1817	1
561	MAY	16	1966	00:00:00.0	+ , -	1817	9
562	MAY	21	1966	00:00:00.0	- , +	1817	14
563	MAY	26	1966	00:00:00.0	+ , -	1817	19
564	JUNE	5	1966	00:00:00.0	- , +	1818	2
565	JUNE	10	1966	00:00:00.0	+ , -	1818	7
566	JUNE	17	1966	00:00:00.0	- , +	1818	14
567	JUNE	23	1966	00:00:00.0	+ , -	1818	20
568	JULY	4	1966	00:00:00.0	- , +	1819	4
569	JULY	8	1966	00:00:00.0	+ , -	1819	8
570	JULY	14	1966	00:00:00.0	- , +	1819	14
571	JULY	21	1966	00:00:00.0	+ , -	1819	21
572	AUG	10	1966	00:00:00.0	- , +	1820	14
573	AUG	18	1966	00:00:00.0	+ , -	1820	22
574	SEPT	6	1966	00:00:00.0	- , +	1821	14
575	SEPT	14	1966	00:00:00.0	+ , -	1821	22
576	OCT	4	1966	00:00:00.0	- , +	1822	15
577	OCT	12	1966	00:00:00.0	+ , -	1822	23
578	OCT	30	1966	00:00:00.0	- , +	1823	14
579	NOV	8	1966	00:00:00.0	+ , -	1823	23
580	NOV	28	1966	00:00:00.0	- , +	1824	16
581	DEC	4	1966	00:00:00.0	+ , -	1824	22
582	DEC	22	1966	00:00:00.0	- , +	1825	13
583	JAN	2	1967	00:00:00.0	+ , -	1825	24
584	JAN	6	1967	00:00:00.0	- , +	1826	1
585	JAN	11	1967	00:00:00.0	+ , -	1826	6
586	JAN	18	1967	00:00:00.0	- , +	1826	13
587	FEB	7	1967	00:00:00.0	+ , -	1827	6
588	FEB	14	1967	00:00:00.0	- , +	1827	13
589	MARCH	19	1967	00:00:00.0	+ , -	1828	19
590	MARCH	23	1967	00:00:00.0	- , +	1828	23
591	APRIL	3	1967	00:00:00.0	+ , -	1829	7
592	APRIL	23	1967	00:00:00.0	- , +	1829	27
593	MAY	11	1967	00:00:00.0	+ , -	1830	18
594	MAY	22	1967	00:00:00.0	- , +	1831	2
595	MAY	27	1967	00:00:00.0	+ , -	1831	7
596	JULY	6	1967	00:00:00.0	- , +	1832	20
597	JULY	11	1967	00:00:00.0	+ , -	1832	25
598	AUG	4	1967	00:00:00.0	- , +	1833	22
599	AUG	9	1967	00:00:00.0	+ , -	1833	27
600	AUG	31	1967	00:00:00.0	- , +	1834	22



601	SEPT	6	1967	00:00:00.0	+, -	1835	1
602	SEPT	27	1967	00:00:00.0	-, +	1835	22
603	OCT	3	1967	00:00:00.0	+, -	1836	1
604	OCT	24	1967	00:00:00.0	-, +	1836	22
605	OCT	28	1967	00:00:00.0	+, -	1836	26
606	NOV	21	1967	00:00:00.0	-, +	1837	23
607	DEC	5	1967	00:00:00.0	+, -	1838	10
608	DEC	17	1967	00:00:00.0	-, +	1838	22
609	JAN	2	1968	00:00:00.0	+, -	1839	11
610	JAN	16	1968	00:00:00.0	-, +	1839	25
611	JAN	29	1968	00:00:00.0	+, -	1840	11
612	FEB	11	1968	00:00:00.0	-, +	1840	24
613	FEB	27	1968	00:00:00.0	+, -	1841	13
614	MARCH	10	1968	00:00:00.0	-, +	1841	25
615	MARCH	23	1968	00:00:00.0	+, -	1842	11
616	APRIL	6	1968	00:00:00.0	-, +	1842	25
617	APRIL	21	1968	00:00:00.0	+, -	1843	13
618	MAY	2	1968	00:00:00.0	-, +	1843	24
619	MAY	17	1968	00:00:00.0	+, -	1844	12
620	MAY	29	1968	00:00:00.0	-, +	1844	24
621	JUNE	7	1968	00:00:00.0	-, +	1845	6
622	JUNE	13	1968	00:00:00.0	+, -	1845	12
623	JUNE	22	1968	00:00:00.0	-, +	1845	21
624	JUNE	28	1968	00:00:00.0	+, -	1845	27
625	JULY	3	1968	00:00:00.0	-, +	1846	5
626	JULY	10	1968	00:00:00.0	+, -	1846	12
627	JULY	17	1968	00:00:00.0	-, +	1846	19
628	JULY	25	1968	00:00:00.0	+, -	1846	27
629	AUG	1	1968	00:00:00.0	-, +	1847	7
630	AUG	5	1968	00:00:00.0	+, -	1847	11
631	AUG	14	1968	00:00:00.0	-, +	1847	20
632	AUG	21	1968	00:00:00.0	+, -	1847	27
633	SEPT	9	1968	00:00:00.0	-, +	1848	19
634	SEPT	19	1968	00:00:00.0	+, -	1849	2
635	SEPT	26	1968	00:00:00.0	-, +	1849	9
636	OCT	1	1968	00:00:00.0	+, -	1849	14
637	OCT	7	1968	00:00:00.0	-, +	1849	20
638	OCT	17	1968	00:00:00.0	+, -	1850	3
639	NOV	3	1968	00:00:00.0	-, +	1850	20
640	NOV	13	1968	00:00:00.0	+, -	1851	3
641	NOV	30	1968	00:00:00.0	-, +	1851	20
642	DEC	10	1968	00:00:00.0	+, -	1852	3
643	DEC	24	1968	00:00:00.0	-, +	1852	17
644	JAN	6	1969	00:00:00.0	+, -	1853	3
645	JAN	24	1969	00:00:00.0	-, +	1853	21
646	FEB	2	1969	00:00:00.0	+, -	1854	3
647	FEB	18	1969	00:00:00.0	-, +	1854	19
648	MARCH	5	1969	00:00:00.0	+, -	1855	7
649	MARCH	25	1969	00:00:00.0	-, +	1855	27
650	APRIL	1	1969	00:00:00.0	+, -	1856	7

651	APRIL	21	1969	00:00:00.0	- , +	1856	27
652	APRIL	29	1969	00:00:00.0	+ , -	1857	8
653	MAY	8	1969	00:00:00.0	- , +	1857	17
654	MAY	13	1969	00:00:00.0	+ , -	1857	22
655	MAY	19	1969	00:00:00.0	- , +	1858	1
656	MAY	28	1969	00:00:00.0	+ , -	1858	10
657	JUNE	15	1969	00:00:00.0	- , +	1859	1
658	JUNE	23	1969	00:00:00.0	+ , -	1859	9
659	JULY	11	1969	00:00:00.0	- , +	1859	27
660	JULY	22	1969	00:00:00.0	+ , -	1860	11
661	AUG	7	1969	00:00:00.0	- , +	1860	27
662	AUG	17	1969	00:00:00.0	+ , -	1861	10
663	SEPT	5	1969	00:00:00.0	- , +	1862	2
664	SEPT	17	1969	00:00:00.0	+ , -	1862	14
665	SEPT	30	1969	00:00:00.0	- , +	1862	27
666	OCT	16	1969	00:00:00.0	+ , -	1863	16
667	OCT	31	1969	00:00:00.0	- , +	1864	4
668	NOV	10	1969	00:00:00.0	+ , -	1864	14
669	NOV	26	1969	00:00:00.0	- , +	1865	3
670	DEC	8	1969	00:00:00.0	+ , -	1865	15
671	DEC	23	1969	00:00:00.0	- , +	1866	3
672	JAN	4	1970	00:00:00.0	+ , -	1866	15
673	JAN	19	1970	00:00:00.0	- , +	1867	3
674	JAN	31	1970	00:00:00.0	+ , -	1867	15
675	FEB	10	1970	00:00:00.0	- , +	1867	25
676	FEB	28	1970	00:00:00.0	+ , -	1868	16
677	MARCH	9	1970	00:00:00.0	- , +	1868	25
678	MARCH	27	1970	00:00:00.0	+ , -	1869	16
679	APRIL	3	1970	00:00:00.0	- , +	1869	23
680	APRIL	22	1970	00:00:00.0	+ , -	1870	15
681	APRIL	30	1970	00:00:00.0	- , +	1870	23
682	MAY	12	1970	00:00:00.0	+ , -	1871	8
683	MAY	28	1970	00:00:00.0	- , +	1871	24
684	JUNE	8	1970	00:00:00.0	+ , -	1872	8
685	JUNE	24	1970	00:00:00.0	- , +	1872	24
686	JULY	5	1970	00:00:00.0	+ , -	1873	8
687	JULY	21	1970	00:00:00.0	- , +	1873	24
688	AUG	1	1970	00:00:00.0	+ , -	1874	8
689	AUG	16	1970	00:00:00.0	- , +	1874	23
690	SEPT	1	1970	00:00:00.0	+ , -	1875	12
691	SEPT	13	1970	00:00:00.0	- , +	1875	24
692	SEPT	29	1970	00:00:00.0	+ , -	1876	13
693	OCT	11	1970	00:00:00.0	- , +	1876	25
694	OCT	27	1970	00:00:00.0	+ , -	1877	14
695	NOV	5	1970	00:00:00.0	- , +	1877	23
696	NOV	24	1970	00:00:00.0	+ , -	1878	15
697	DEC	4	1970	00:00:00.0	- , +	1878	25
698	DEC	13	1970	00:00:00.0	+ , -	1879	7
699	DEC	17	1970	00:00:00.0	- , +	1879	11
700	DEC	23	1970	00:00:00.0	+ , -	1879	17

701	DEC	30	1970	00:00:00.0	- , +	1879	24
702	JAN	18	1971	00:00:00.0	+ , -	1880	16
703	JAN	26	1971	00:00:00.0	- , +	1880	24
704	FEB	14	1971	00:00:00.0	+ , -	1881	16
705	FEB	25	1971	00:00:00.0	- , +	1881	27
706	MARCH	2	1971	00:00:00.0	+ , -	1882	5
707	MARCH	7	1971	00:00:00.0	- , +	1882	10
708	MARCH	13	1971	00:00:00.0	+ , -	1882	16
709	MARCH	23	1971	00:00:00.0	- , +	1882	26
710	MARCH	30	1971	00:00:00.0	+ , -	1883	6
711	APRIL	4	1971	00:00:00.0	- , +	1883	11
712	APRIL	9	1971	00:00:00.0	+ , -	1883	16
713	APRIL	19	1971	00:00:00.0	- , +	1883	26
714	MAY	6	1971	00:00:00.0	+ , -	1884	16
715	MAY	16	1971	00:00:00.0	- , +	1884	26
716	MAY	23	1971	00:00:00.0	+ , -	1885	6
717	MAY	29	1971	00:00:00.0	- , +	1885	12
718	JUNE	1	1971	00:00:00.0	+ , -	1885	15
719	JUNE	16	1971	00:00:00.0	- , +	1886	3
720	JUNE	29	1971	00:00:00.0	+ , -	1886	16
721	JULY	13	1971	00:00:00.0	- , +	1887	3
722	JULY	19	1971	00:00:00.0	+ , -	1887	9
723	JULY	24	1971	00:00:00.0	- , +	1887	14
724	JULY	27	1971	00:00:00.0	+ , -	1887	17
725	AUG	8	1971	00:00:00.0	- , +	1888	2
726	AUG	23	1971	00:00:00.0	+ , -	1888	17
727	SEPT	5	1971	00:00:00.0	- , +	1889	3
728	SEPT	19	1971	00:00:00.0	+ , -	1889	17
729	SEPT	30	1971	00:00:00.0	- , +	1890	1
730	OCT	13	1971	00:00:00.0	+ , -	1890	14
731	OCT	28	1971	00:00:00.0	- , +	1891	2
732	NOV	4	1971	00:00:00.0	+ , -	1891	9
733	NOV	23	1971	00:00:00.0	- , +	1892	1
734	DEC	1	1971	00:00:00.0	+ , -	1892	9
735	DEC	18	1971	00:00:00.0	- , +	1892	26
736	DEC	28	1971	00:00:00.0	+ , -	1893	9
737	JAN	16	1972	00:00:00.0	- , +	1894	1
738	JAN	22	1972	00:00:00.0	+ , -	1894	7
739	FEB	11	1972	00:00:00.0	- , +	1894	27
740	FEB	18	1972	00:00:00.0	+ , -	1895	7
741	MARCH	7	1972	00:00:00.0	- , +	1895	25
742	MARCH	16	1972	00:00:00.0	+ , -	1896	7
743	APRIL	4	1972	00:00:00.0	- , +	1896	26
744	APRIL	10	1972	00:00:00.0	+ , -	1897	5
745	MAY	2	1972	00:00:00.0	- , +	1897	27
746	MAY	8	1972	00:00:00.0	+ , -	1898	6
747	MAY	16	1972	00:00:00.0	- , +	1898	14
748	MAY	23	1972	00:00:00.0	+ , -	1898	21
749	MAY	28	1972	00:00:00.0	- , +	1898	26
750	JUNE	4	1972	00:00:00.0	+ , -	1899	6

751	JUNE	10	1972	00:00:00.0	- , +	1899	12
752	JUNE	20	1972	00:00:00.0	+ , -	1899	22
753	JUNE	25	1972	00:00:00.0	- , +	1899	27
754	JULY	3	1972	00:00:00.0	+ , -	1900	8
755	JULY	12	1972	00:00:00.0	- , +	1900	17
756	JULY	16	1972	00:00:00.0	+ , -	1900	21
757	JULY	23	1972	00:00:00.0	- , +	1901	1
758	AUG	7	1972	00:00:00.0	+ , -	1901	16
759	AUG	17	1972	00:00:00.0	- , +	1901	26
760	SEPT	4	1972	00:00:00.0	+ , -	1902	17
761	SEPT	8	1972	00:00:00.0	- , +	1902	21
762	OCT	1	1972	00:00:00.0	+ , -	1903	17
763	OCT	10	1972	00:00:00.0	- , +	1903	26
764	OCT	31	1972	00:00:00.0	+ , -	1904	20
765	NOV	7	1972	00:00:00.0	- , +	1904	27
766	NOV	23	1972	00:00:00.0	+ , -	1905	16
767	DEC	13	1972	00:00:00.0	- , +	1906	9
768	DEC	22	1972	00:00:00.0	+ , -	1906	18
769	JAN	7	1973	00:00:00.0	- , +	1907	7
770	JAN	21	1973	00:00:00.0	+ , -	1907	21
771	FEB	3	1973	00:00:00.0	- , +	1908	7
772	FEB	17	1973	00:00:00.0	+ , -	1908	21
773	MARCH	6	1973	00:00:00.0	- , +	1909	11
774	MARCH	19	1973	00:00:00.0	+ , -	1909	24
775	MARCH	31	1973	00:00:00.0	- , +	1910	9
776	APRIL	11	1973	00:00:00.0	+ , -	1910	20
777	APRIL	29	1973	00:00:00.0	- , +	1911	11
778	MAY	12	1973	00:00:00.0	+ , -	1911	24
779	MAY	28	1973	00:00:00.0	- , +	1912	13
780	JUNE	10	1973	00:00:00.0	+ , -	1912	26
781	JUNE	24	1973	00:00:00.0	- , +	1913	13
782	JULY	8	1973	00:00:00.0	+ , -	1913	27
783	AUG	2	1973	00:00:00.0	+ , -	1914	25
784	SEPT	9	1973	00:00:00.0	+ , -	1916	9
785	SEPT	20	1973	00:00:00.0	- , +	1916	20
786	OCT	8	1973	00:00:00.0	+ , -	1917	11
787	OCT	16	1973	00:00:00.0	- , +	1917	19
788	OCT	23	1973	00:00:00.0	+ , -	1917	26
789	OCT	29	1973	00:00:00.0	- , +	1918	5
790	NOV	5	1973	00:00:00.0	+ , -	1918	12
791	NOV	14	1973	00:00:00.0	- , +	1918	21
792	DEC	4	1973	00:00:00.0	+ , -	1919	14
793	DEC	27	1973	00:00:00.0	+ , -	1920	10
794	JAN	14	1974	00:00:00.0	- , +	1921	1
795	JAN	25	1974	00:00:00.0	+ , -	1921	12
796	FEB	9	1974	00:00:00.0	- , +	1921	27
797	FEB	20	1974	00:00:00.0	+ , -	1922	11
798	MARCH	7	1974	00:00:00.0	- , +	1922	26
799	MARCH	20	1974	00:00:00.0	+ , -	1923	12
800	APRIL	3	1974	00:00:00.0	- , +	1923	26

801	APRIL	16	1974	00:00:00.0	+, -	1924	12
802	APRIL	29	1974	00:00:00.0	-, +	1924	25
803	MAY	13	1974	00:00:00.0	+, -	1925	12
804	MAY	30	1974	00:00:00.0	-, +	1926	2
805	JUNE	9	1974	00:00:00.0	+, -	1926	12
806	JUNE	25	1974	00:00:00.0	-, +	1927	1
807	JULY	6	1974	00:00:00.0	+, -	1927	12
808	JULY	23	1974	00:00:00.0	-, +	1928	2
809	AUG	2	1974	00:00:00.0	+, -	1928	12
810	AUG	19	1974	00:00:00.0	-, +	1929	2
811	AUG	26	1974	00:00:00.0	+, -	1929	9
812	SEPT	16	1974	00:00:00.0	-, +	1930	3
813	SEPT	24	1974	00:00:00.0	+, -	1930	11
814	OCT	13	1974	00:00:00.0	-, +	1931	3
815	OCT	23	1974	00:00:00.0	+, -	1931	13
816	NOV	9	1974	00:00:00.0	-, +	1932	3
817	NOV	19	1974	00:00:00.0	+, -	1932	13
818	DEC	7	1974	00:00:00.0	-, +	1933	4
819	DEC	17	1974	00:00:00.0	+, -	1933	14
820	DEC	26	1974	00:00:00.0	-, +	1933	23
821	DEC	30	1974	00:00:00.0	+, -	1933	27
822	JAN	4	1975	00:00:00.0	-, +	1934	5
823	JAN	13	1975	00:00:00.0	+, -	1934	14
824	JAN	23	1975	00:00:00.0	-, +	1934	24
825	JAN	27	1975	00:00:00.0	+, -	1935	1
826	JAN	31	1975	00:00:00.0	-, +	1935	5
827	FEB	8	1975	00:00:00.0	+, -	1935	13
828	FEB	21	1975	00:00:00.0	-, +	1935	26
829	MARCH	8	1975	00:00:00.0	+, -	1936	14
830	MARCH	21	1975	00:00:00.0	-, +	1936	27
831	MARCH	31	1975	00:00:00.0	+, -	1937	10
832	APRIL	17	1975	00:00:00.0	-, +	1937	27
833	MAY	2	1975	00:00:00.0	+, -	1938	15
834	MAY	16	1975	00:00:00.0	-, +	1939	2
835	MAY	19	1975	00:00:00.0	+, -	1939	5
836	MAY	23	1975	00:00:00.0	-, +	1939	9
837	MAY	29	1975	00:00:00.0	+, -	1939	15
838	JUNE	10	1975	00:00:00.0	-, +	1939	27
839	JUNE	27	1975	00:00:00.0	+, -	1940	17
840	JULY	8	1975	00:00:00.0	-, +	1941	1
841	JULY	25	1975	00:00:00.0	+, -	1941	18
842	AUG	2	1975	00:00:00.0	-, +	1941	26
843	AUG	17	1975	00:00:00.0	+, -	1942	14
844	AUG	29	1975	00:00:00.0	-, +	1942	26
845	SEPT	17	1975	00:00:00.0	+, -	1943	18
846	SEPT	26	1975	00:00:00.0	-, +	1943	27
847	OCT	15	1975	00:00:00.0	+, -	1944	19
848	OCT	29	1975	00:00:00.0	-, +	1945	6











1659 S 2	
1660 S29	
1661 026	
1662 N22	
1663 D19	
1664 J15	
1665 F11	
1666 M10	
1667 A 6	
1668 M 3	
1669 M30	
1670 J26	
1671 J23	
1672 A19	
1673 S15	
1674 012	
1675 N 8	
1676 D 5	
1677 J 1	
1678 J28	
1679 F24	
1680 M22	
1681 A18	
1682 M15	
1683 J11	
1684 J 8	

1955

1956



1711	J	7
1712	A	3
1713	A	30
1714	S	26
1715	O	23
1716	N	19
1717	D	16
1718	J	12
1719	F	8
1720	H	7
1721	A	3
1722	A	30
1723	M	27
1724	J	23
1725	J	20
1726	A	16
1727	S	12
1728	O	9
1729	N	5
1730	D	2
1731	D	29
1732	J	25
1733	F	21
1734	M	19
1735	A	15
1736	M	12

1958

1959

1737 J 8	
1738 J 5	
1739 A 1	
1740 A28	
1741 S24	
1742 D21	
1743 N17	
1744 D14	
1745 J10	
1746 F 6	
1747 H 5	
1748 A 1	
1749 A28	
1750 H25	
1751 J21	
1752 J18	
1753 A14	
1754 S10	
1755 D 7	
1756 N 3	
1757 N30	
1758 D27	
1759 J23	
1760 F19	
1761 H18	
1762 A14	

1960

1961

1763 M11	
1764 J 7	
1765 J 4	
1766 J31	
1767 A27	
1768 S23	
1769 D20	
1770 N16	
1771 D13	
1772 J 9	
1773 F 5	
1774 M 4	
1775 M31	
1776 A27	
1777 M24	
1778 J20	
1779 J17	
1780 A13	
1781 S 9	
1782 D 6	
1783 N 2	
1784 N29	
1785 D26	
1786 J22	
1787 F18	
1788 M16	

1962

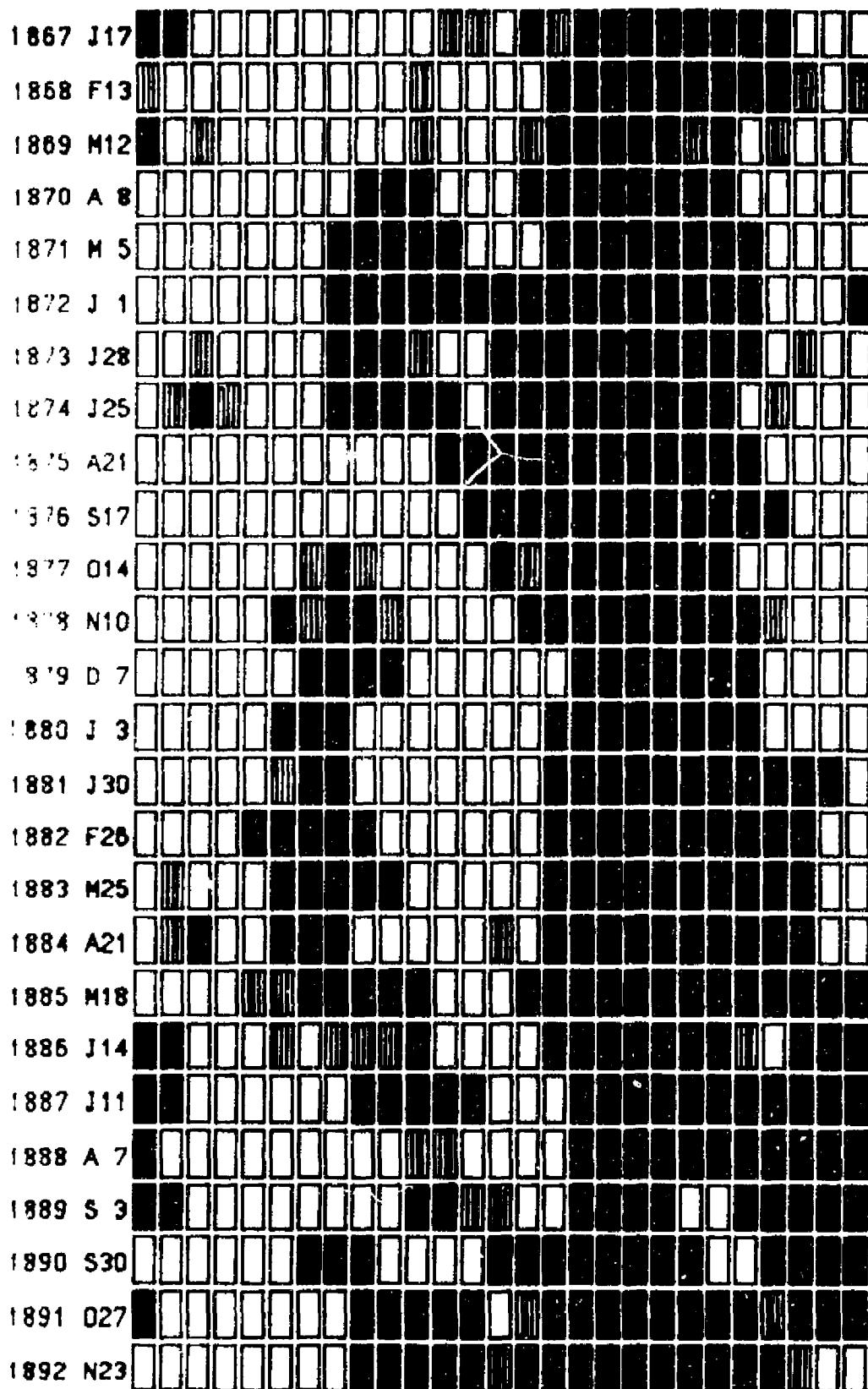
1963











1970

1971

1893	D20
1894	J16
1895	F12
1896	M10
1897	A 6
1898	H 3
1899	M30
1900	J26
1901	J23
1902	A19
1903	S15
1904	O12
1905	N 8
1906	D 5
1907	J 1
1908	J28
1909	F24
1910	M23
1911	A19
1912	M16
1913	J12
1914	J 9
1915	A 5
1916	S 1
1917	528
1918	025

1972

1973



D23		1352	G
J19		1353	S G
F15		1354	S G
M13		1355	S G
A9		1356	S G
M6		1357	S G
J2		1358	S G
J29		1359	S G
J26		1360	S G T
A22		1361	S G T
S18		1362	S G T
O15		1363	S G T
N11		1364	S G T
D8		1365	S G T



D25		I555
J21		I556
F17		I557
M16		I558
A12		I559
M9		I560
J5		I561
J2		I562
J29		I563
A25		I564
S21		I565
O18		I566
N14		I567
D11		I568

G T S G T S G T S G T S G T S G T S G T S G T S G T S





D23		1582
J19		1583
F15		1584
M14		1585
A10		1586
M7		1587
J3		1588
J30		1589
J27		1590
A23		1591
S19		1592
O16		1593
N12		1594
D9		1595

G  
T S G T S G T S G T S G T S G T S G T S G T S



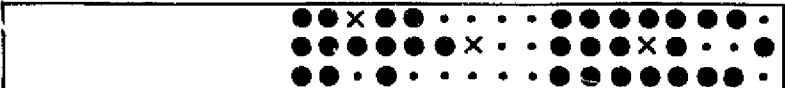
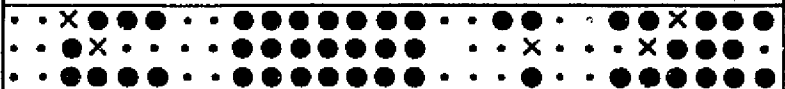
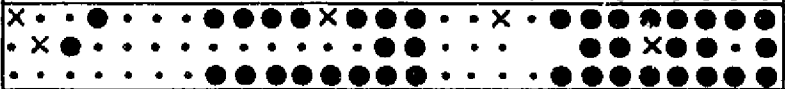
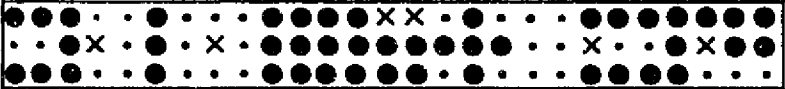
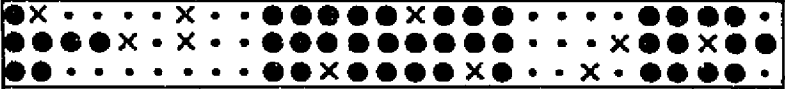
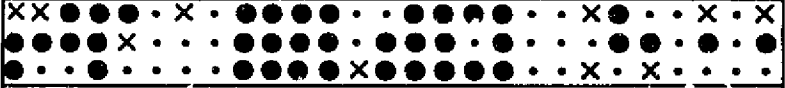
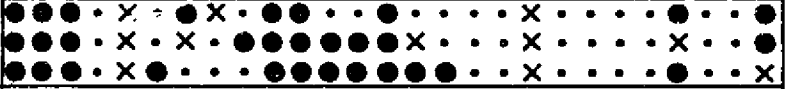





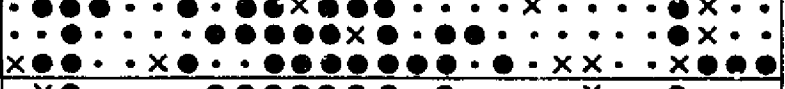

1951	D22		1609	G
	J18		1610	T
	F14		1611	S
	M13		1612	G
	A 9		1613	T
	M 6		1614	D
	J 2		1615	G
	J29		1616	T
	J26		1617	D
	A22		1618	G
	S18		1619	T
	O15		1620	D
	N11		1621	G
	D 8		1622	T









Figure 1 displays 15 dot plots, each representing a year from 1677 to 1956. The vertical axis for each plot is labeled with the year (e.g., 1677, 1678, ..., 1956). The horizontal axis represents random numbers from 0 to 999. Each plot contains a series of dots, where the horizontal position of each dot corresponds to a random number. The dots are distributed across the horizontal axis, with some years showing a higher density of dots than others, but generally maintaining a uniform spread across the range of 0 to 999.









1960	D29		1731	M
	J25		1732	T
	F21		1733	S
	M19		1734	M
	A15		1735	T
	M12		1736	S
	J8		1737	M
	J5		1738	T
	A1		1739	S
	A28		1740	M
	S24		1741	T
	O21		1742	S
	N17		1743	M
	D14		1744	T



D 27		1758
J 23		1759
F 19		1760
M 18		1761
A 14		1762
M 11		1763
J 7		1764
J 4		1765
J 31		1766
A 21		1767
S 23		1768
O 20		1769
N 16		1770
D 13		1771

A T S A T S A T S A T S A T S A T S I T S I T S A T S



	D26		1785
	J22		1786
	F18		1787
	M16		1788
	A12		1789
	M9		1790
1964	J5		1791
	J2		1792
	J29		1793
	A25		1794
	S21		1795
	O18		1796
	N14		1797
	D11		1798

**I  
T  
S  
A  
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S  
I  
T  
S  
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T  
S**















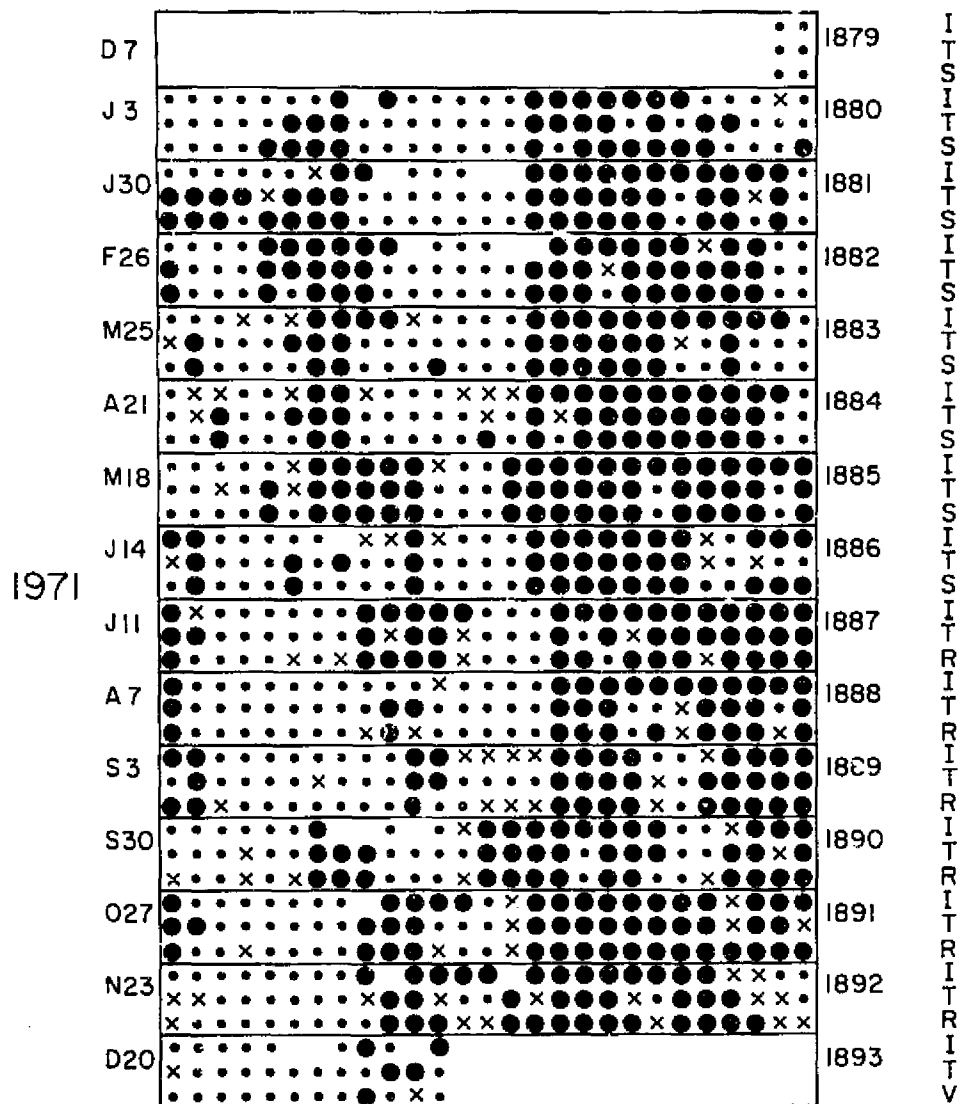


Figure 1 displays a series of 13 horizontal panels, each representing a year from 1893 to 1906. Each panel shows the spatial distribution of 1000 simulated trees, represented by black dots and crosses. The panels are labeled on the right with the year and on the left with a tree ID. The distribution of trees varies significantly over time, with some trees appearing in multiple years and others only once. The panels are arranged vertically, with 1893 at the top and 1906 at the bottom.

Tree ID	Year
D20	1893
J16	1894
F12	1895
M10	1896
A6	1897
M3	1898
M30	1899
J26	1900
J23	1901
A19	1902
S15	1903
O12	1904
N8	1905
D5	1906

I  
T  
V  
I  
T  
V  
I  
T  
P  
I  
T  
P  
I  
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T  
V





